

# HW4\_report

April 4, 2016

## 1 CS189: Introduction to Machine Learning

### 1.1 Problem 1: Ridge Regression

In this problem we will return to predicting the median home value in a given Census area by extending linear regression. The data is in `housing_data.mat` and it comes from <ftp://rcom.univie.ac.at/mirrors/lib.stat.cmu.edu/datasets/.index.html>. There are only 8 features for each data point; you can read about the features in `housing_data_source.txt`.

#### 1.1.1 1a)

In order to find the optimizer of the loss function  $J(w, \alpha)$ , we need to differentiate the loss function  $J(w, \alpha)$  and find the local minima. Before differentiating the loss function  $J(w, \alpha)$ , let us expand the mathematical expression to facilitate calculations.

$$\begin{aligned} J(w, \alpha) &= (Xw + \alpha \mathbf{1} - y)^\top (Xw + \alpha \mathbf{1} - y) + \lambda w^\top w \\ &= (w^\top X^\top + \alpha \mathbf{1}^\top - y^\top)(Xw + \alpha \mathbf{1} - y) + \lambda w^\top w \\ &= w^\top X^\top Xw + \alpha w^\top X^\top \mathbf{1} - w^\top X^\top y + \alpha \mathbf{1}^\top Xw + \alpha^2 n - \alpha \mathbf{1}^\top y + -y^\top Xw - y^\top \alpha \mathbf{1} + y^\top y + \lambda w^\top w \\ &= w^\top X^\top Xw - w^\top X^\top y + \alpha n - \alpha \mathbf{1}^\top y + -y^\top Xw - y^\top \alpha \mathbf{1} + y^\top y + \lambda w^\top w \quad (\because X^\top \mathbf{1} = \mathbf{1}^\top X = 0) \end{aligned}$$

If we differentiate the loss function  $J(w, \alpha)$  by  $w$ , then

$$\frac{\partial J}{\partial w} = 2X^\top Xw - 2X^\top y + 2\lambda w.$$

Therefore,

$$\frac{\partial J}{\partial w} = 2X^\top Xw - 2X^\top y + 2\lambda w = 0$$

gives  $\hat{w} = (X^\top X + \lambda I)^{-1} X^\top y$ .

If we differentiate the loss function  $J(w, \alpha)$  by  $\alpha$ , then we get

$$\frac{\partial J}{\partial \alpha} = 2n - 2\mathbf{1}^\top y.$$

In order for  $\frac{\partial J}{\partial \alpha}$  to be 0, it should be that  $\hat{\alpha} = \bar{y}$ .

#### 1.1.2 1b)

```
In [2]: import scipy.io as sio
import numpy as np
```

```
housing_data = sio.loadmat('./housing_dataset/housing_data.mat')
```

```

In [28]: housing_xtrain = housing_data['Xtrain']
         housing_ytrain = housing_data['Ytrain'][:,0]
         housing_xvalid = housing_data['Xvalidate']
         housing_yvalid = housing_data['Yvalidate'][:,0]

In [46]: center_housing_xtrain.shape

Out[46]: (19440, 8)

In [19]: # center the feature values of the training and validation data.

         center_housing_xtrain = housing_xtrain - np.expand_dims(np.mean(housing_xtrain, axis = 0), axis=1)
         center_housing_xvalid = housing_xvalid - np.expand_dims(np.mean(housing_xvalid, axis = 0), axis=1)

In [23]: np.sum(center_housing_xvalid, axis=0)

Out[23]: array([ 4.19220214e-13, -2.70006240e-13, -9.45874490e-11,
                 -1.90993887e-11, -8.36735126e-11,  2.91038305e-11,
                 2.77111667e-13, -2.55795385e-13])

In [5]: from numpy.linalg import inv

In [64]: # Implement ridge regression for (i)
         def ridge_regression (X, y, lamda):
             w = np.dot(inv(np.dot(np.transpose(X), X) + (lamda * np.identity(8))),
                         np.dot(np.transpose(X), y))
             alpha = np.mean(y)
             return [w, alpha]

In [6]: # Implement 10-fold Cross-Validation, using the ridge_regression implemented above.

         from sklearn.cross_validation import KFold
         kf = KFold(19440, n_folds=10)

         def tenfold_cv(lamda):
             RSS = 0
             for train_index, test_index in kf:
                 X_train, X_test = center_housing_xtrain[train_index, :], center_housing_xtrain[test_index, :]
                 y_train, y_test = housing_ytrain[train_index], housing_ytrain[test_index]
                 ridge = ridge_regression(X_train, y_train, lamda)
                 w = ridge[0]
                 alpha = ridge[1]
                 one = np.linspace(1,1,len(y_test))
                 temp = (np.dot(X_test, w) + (alpha * np.transpose(one)) - y_test )
                 RSS = RSS + np.dot(np.transpose(temp), temp)
             return RSS/10

In [88]: tenfold_cv(1e-12)

Out[88]: 9425875042980.4492

In [89]: tenfold_cv(1e-5)

Out[89]: 9425875042967.5977

```

```

In [90]: tenfold_cv(1e-4)
Out[90]: 9425875042851.9395
In [91]: tenfold_cv(1e-3)
Out[91]: 9425875041695.3809
In [92]: tenfold_cv(1e-2)
Out[92]: 9425875030137.1055
In [93]: tenfold_cv(1e-1)
Out[93]: 9425874915283.6348
In [94]: tenfold_cv(1)
Out[94]: 9425873839646.3105
In [95]: tenfold_cv(10)
Out[95]: 9425870341696.4805
In [96]: tenfold_cv(100)
Out[96]: 9426530937596.7383
In [97]: tenfold_cv(1000)
Out[97]: 9480399010571.4824
In [98]: tenfold_cv(5)
Out[98]: 9425870659168.0137
In [99]: tenfold_cv(20)
Out[99]: 9425881801097.7461
In [100]: tenfold_cv(12)
Out[100]: 9425871347405.1973
In [101]: tenfold_cv(8)
Out[101]: 9425869982405.9648
In [102]: tenfold_cv(7)
Out[102]: 9425870045690.5527
In [103]: tenfold_cv(9)
Out[103]: 9425870081144.416

```

Average RSS on different tuned lambda valuse is given as follows:

Lambda	average RSS
1e-12	9425875042980.4492
1e-5	9425875042967.5977
1e-4	9425875042851.9395
1e-3	9425875041695.3809
1e-2	9425875030137.1055
1e-1	9425874915283.6348
1	9425873839646.3105
5	9425870659168.0137
7	9425870045690.5527
8	9425869982405.9648
9	9425870081144.416
10	9425870341696.4805
12	9425871347405.1973
20	9425881801097.7461
100	9426530937596.7383
1000	9480399010571.4824

It is when  $\lambda = 8$  that ridge regression with least squares achieves the lowest average RSS throughout 10-fold cross validation.

In [109]: *# RSS on validation data with the lambda 8 with the lowest cross-validation error.*

```
ridge = ridge_regression(center_housing_xtrain, housing_ytrain, 8)
w = ridge[0]
alpha = ridge[1]
one = np.linspace(1,1,len(housing_yvalid))
temp = (np.dot(center_housing_xvalid, w) + (alpha * np.transpose(one)) - housing_yvalid )
RSS = np.dot(np.transpose(temp), temp)
```

In [110]: RSS

Out[110]: 5782552884504.541

When we train ridge regression with lambda of 8, RSS on validation data is given as 5782552884504.541. Compared to 5794953797654.9834, RSS of linear regression in HW3, the ridge regression exhibits lower RSS and therefore fits better to the validation data than the linear regression does.

In [111]: w

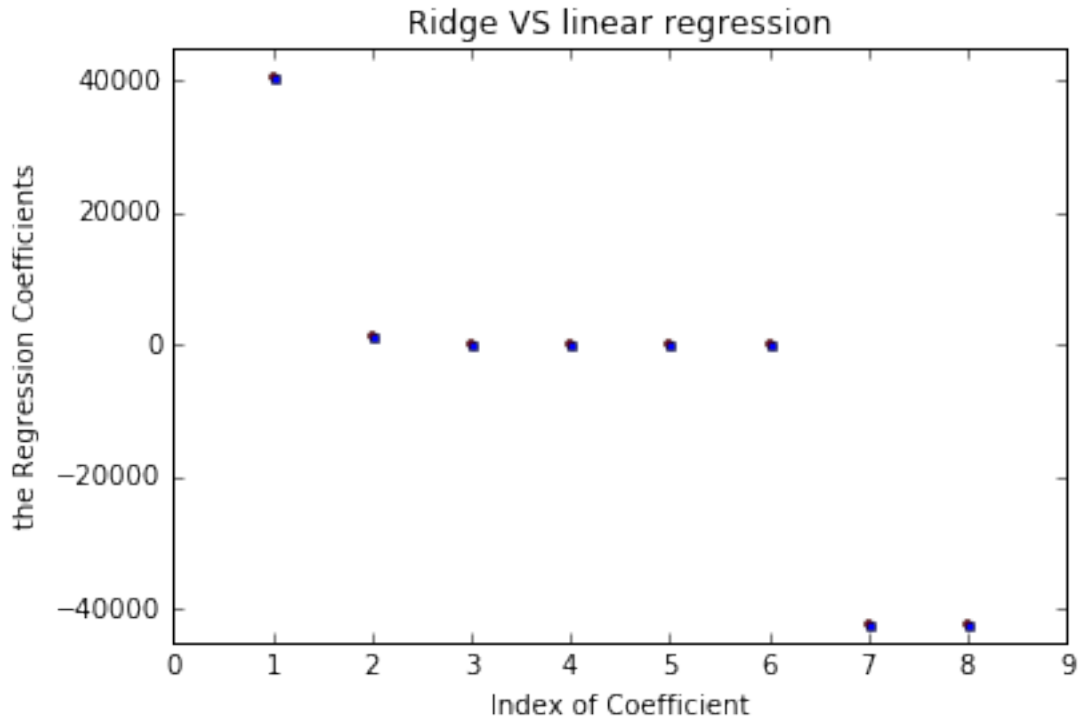
Out[111]: array([ 4.05915089e+04, 1.19668415e+03, -8.50719390e+00,  
1.18261856e+02, -3.77927882e+01, 4.32070327e+01,  
-4.21178034e+04, -4.23914057e+04])

In [115]: beta = np.array([ 4.05879986e+04, 1.19561189e+03, -8.50145688e+00,  
1.18352188e+02, -3.77900280e+01, 4.30562637e+01,  
-4.21794075e+04, -4.24573474e+04])

In [7]: import matplotlib.pyplot as plt  
%matplotlib inline

In [124]: xpos = np.arange(len(w))+ 1  
plt.axis([0,9, -45000, 45000])  
plt.plot(xpos, w, 'ro', ms = 3)

```
plt.plot(xpos, beta, 'bs', ms =3)
plt.xlabel('Index of Coefficient')
plt.ylabel('the Regression Coefficients')
plt.title('Ridge VS linear regression')
plt.show()
```



We plot the regression coefficients of 8 feature in both ridge regression and linear regression in HW3. This plot shows that the maximum absolute value of the regression coefficients is slightly smaller in the ridge regression than in the linear regression, as we could expected. Since we impose penalty on large norm of regression coefficient vector in ridge regression, the ridge regression tends to have smaller absolute value of regression coefficients.

## 1.2 Problem 2 : Logistic Regression

```
In [131]: X = np.array([[0,3,1],[1,3,1],[0,1,1],[1,1,1]])
          y = np.transpose(np.array([1,1,0,0]))
          1/(np.array([1,2,3]) + 1)
```

```
Out[131]: array([ 0.5          ,  0.33333333,  0.25          ])
```

```
In [8]: # Implement the logistic function
def s(gamma):
    return 1/(1+ np.exp(- gamma))

# Implement the logistic loss, aka the cross-entropy loss.
def R(w,X,y):
    temp = np.dot(X,w)
    one = np.linspace(1,1, len(y))
```

```

        return np.dot(np.transpose(1- y),temp) + np.dot(one, np.log(1+ np.exp(-temp)))

        #return - np.dot(np.transpose(y) ,np.log(s(np.dot(X, w)))) - np.dot(np.transpose(1-y), np.l

def batch_gradient(w,X,y,e):
    return w + e* np.dot(np.transpose(y- s(np.dot(X, w))), X)

In [266]: w0 = np.transpose(np.array([-2,1,0]))
In [269]: R(w0, X, y)
Out[269]: 1.9883724141284105
In [219]: mu0 = s(np.dot(X,w0))
           mu0
Out[219]: array([ 0.95257413,  0.73105858,  0.73105858,  0.26894142])
In [220]: w1 = batch_gradient(w0, X, y, 1)
           w1
Out[220]: array([-2.          ,  0.94910188, -0.68363271])
In [221]: mu1 = s(np.dot(X,w1))
           mu1
Out[221]: array([ 0.89693957,  0.54082713,  0.56598026,  0.15000896])
In [222]: w2 = batch_gradient(w1, X, y, 1)
           w2
Out[222]: array([-1.69083609,  1.91981257, -0.83738862])
In [271]: R(w2, X, y)
Out[271]: 1.8546997847922486

```

All things considered, \* the value of  $R(w_0)$  is 1.9883724141284105, \* the value of  $\mu_0$  is (0.95257413, 0.73105858, 0.73105858, 0.26894142), \* the value of  $w_1$  is  $[-2., 0.94910188, -0.68363271]^T$ , \* the value of  $\mu_1$  is (0.89693957, 0.54082713, 0.56598026, 0.15000896), \* the value of  $w_2$  is  $[-1.69083609, 1.91981257, -0.83738862]^T$ , \* the value of  $R(w_2)$  is 1.8546997847922486.

### 1.3 Problem 3: Spam classification using Logistic Regression

The spam dataset given as part of the homework in spam.mat consists of 5172 email messages, from which 32 features have been extracted. Please use the standard features for the first four parts of this problem. In part 5, we are asked to predict the labels of the test set in test.mat and submit the predictions to Kaggle. Feel free to use your own featurizes to boost up your score! One can imagine performing several kinds of preprocessing to this data matrix. Try each of the following separately:

1. Standardize each column to have mean 0 and unit variance.
2. Transform the features using  $X_{ij} \mapsto \log(X_{ij} + 0.1)$ , where the  $X_{ij}$  's are the entries of the design matrix.
3. Binarize the features using  $X_{ij} \mapsto I(X_{ij} > 0)$ .  $I$  denotes an indicator variable.

```
In [21]: # import the data
```

```

spam_data = sio.loadmat('./spam_dataset/spam_data.mat')
sp_test = spam_data['test_data']
sp_xtrain = spam_data['training_data']
sp_ytrain = spam_data['training_labels'][0,]
sp_test = np.hstack((sp_test, np.expand_dims(np.transpose(np.linspace(1,1, sp_test.shape[0])),

```

## Preprocessing

- Standardize each column to have mean 0 and unit variance.

In [22]: *# Standardize each column to have mean 0 and unit variance.*

```
col_mean = np.mean(sp_xtrain, axis=0)
col_std = np.std(sp_xtrain, axis = 0)
```

```
sp_xtrain1 = (sp_xtrain - np.expand_dims(col_mean,axis = 0))/np.expand_dims(col_std, axis = 0)
sp_xtrain1 = np.hstack((sp_xtrain1, np.expand_dims(np.transpose(np.linspace(1,1, sp_xtrain1.sh
```

- Transform the features using  $X_{ij} \mapsto \log(X_{ij} + 0.1)$ , where the  $X_{ij}$  's are the entries of the design matrix.

In [23]: `sp_xtrain2 = np.log(sp_xtrain + 0.1)`

```
sp_xtrain2 = np.hstack((sp_xtrain2, np.expand_dims(np.transpose(np.linspace(1,1, sp_xtrain2.sh
```

- Binarize the features using  $X_{ij} \mapsto I(X_{ij} > 0)$ .  $I$  denotes an indicator variable.

In [24]: `sp_xtrain3 = (sp_xtrain > 0) * 1`

```
sp_xtrain3 = np.hstack((sp_xtrain3, np.expand_dims(np.transpose(np.linspace(1,1, sp_xtrain3.sh
```

**Batch Gradient Descent** We run the batch gradient method with learning rate  $10^{-3}$  for the first preprocessing data.

In [25]: `w_0 = np.transpose(np.zeros(sp_xtrain1.shape[1]))`

In [26]: `def logistic_with_batch_gradient(w,X,y,e,n):`

```
    w_temp = w
    risk = []
    for i in np.arange(n):
        risk_temp = R(w_temp,X,y)
        print ('the risk is ', risk_temp, ': iteration ', (i+1))
        w_temp = batch_gradient(w_temp, X, y, e)
        risk = risk + [risk_temp]
    return [risk, w_temp]
```

In [27]: `empirical_risk1 = logistic_with_batch_gradient(w_0, sp_xtrain1, sp_ytrain, 1e-3, 2000)`

```
the risk is 3584.95721786 : iteration 1
the risk is 2387.22054291 : iteration 2
the risk is 2228.25903423 : iteration 3
the risk is 2202.00609786 : iteration 4
the risk is 2184.67717818 : iteration 5
the risk is 2171.56129252 : iteration 6
the risk is 2161.02106254 : iteration 7
the risk is 2152.25131949 : iteration 8
the risk is 2144.779402 : iteration 9
the risk is 2138.29922082 : iteration 10
the risk is 2132.59971606 : iteration 11
the risk is 2127.52901278 : iteration 12
the risk is 2122.97444877 : iteration 13
the risk is 2118.85047442 : iteration 14
the risk is 2115.09083712 : iteration 15
the risk is 2111.64331447 : iteration 16
```

the risk is 2108.46606985 : iteration 17  
the risk is 2105.52508458 : iteration 18  
the risk is 2102.79232081 : iteration 19  
the risk is 2100.24438769 : iteration 20  
the risk is 2097.86155833 : iteration 21  
the risk is 2095.62703447 : iteration 22  
the risk is 2093.52638815 : iteration 23  
the risk is 2091.54713193 : iteration 24  
the risk is 2089.67838348 : iteration 25  
the risk is 2087.91060067 : iteration 26  
the risk is 2086.23536984 : iteration 27  
the risk is 2084.64523487 : iteration 28  
the risk is 2083.13355773 : iteration 29  
the risk is 2081.69440384 : iteration 30  
the risk is 2080.32244695 : iteration 31  
the risk is 2079.01288972 : iteration 32  
the risk is 2077.76139683 : iteration 33  
the risk is 2076.56403849 : iteration 34  
the risk is 2075.41724225 : iteration 35  
the risk is 2074.31775183 : iteration 36  
the risk is 2073.26259162 : iteration 37  
the risk is 2072.24903616 : iteration 38  
the risk is 2071.2745835 : iteration 39  
the risk is 2070.3369321 : iteration 40  
the risk is 2069.43396058 : iteration 41  
the risk is 2068.56370996 : iteration 42  
the risk is 2067.72436806 : iteration 43  
the risk is 2066.91425563 : iteration 44  
the risk is 2066.13181416 : iteration 45  
the risk is 2065.37559501 : iteration 46  
the risk is 2064.64424967 : iteration 47  
the risk is 2063.93652117 : iteration 48  
the risk is 2063.2512363 : iteration 49  
the risk is 2062.58729866 : iteration 50  
the risk is 2061.94368239 : iteration 51  
the risk is 2061.31942654 : iteration 52  
the risk is 2060.71362996 : iteration 53  
the risk is 2060.1254467 : iteration 54  
the risk is 2059.55408181 : iteration 55  
the risk is 2058.99878752 : iteration 56  
the risk is 2058.45885982 : iteration 57  
the risk is 2057.93363525 : iteration 58  
the risk is 2057.42248804 : iteration 59  
the risk is 2056.92482748 : iteration 60  
the risk is 2056.44009547 : iteration 61  
the risk is 2055.96776432 : iteration 62  
the risk is 2055.50733472 : iteration 63  
the risk is 2055.05833385 : iteration 64  
the risk is 2054.62031364 : iteration 65  
the risk is 2054.19284921 : iteration 66  
the risk is 2053.77553736 : iteration 67  
the risk is 2053.36799524 : iteration 68  
the risk is 2052.96985908 : iteration 69  
the risk is 2052.58078301 : iteration 70



the risk is 2052.20043799 : iteration 71  
the risk is 2051.82851081 : iteration 72  
the risk is 2051.46470316 : iteration 73  
the risk is 2051.10873072 : iteration 74  
the risk is 2050.7603224 : iteration 75  
the risk is 2050.41921959 : iteration 76  
the risk is 2050.08517539 : iteration 77  
the risk is 2049.75795404 : iteration 78  
the risk is 2049.43733026 : iteration 79  
the risk is 2049.12308866 : iteration 80  
the risk is 2048.81502326 : iteration 81  
the risk is 2048.51293694 : iteration 82  
the risk is 2048.21664098 : iteration 83  
the risk is 2047.92595465 : iteration 84  
the risk is 2047.64070474 : iteration 85  
the risk is 2047.36072525 : iteration 86  
the risk is 2047.08585692 : iteration 87  
the risk is 2046.815947 : iteration 88  
the risk is 2046.55084885 : iteration 89  
the risk is 2046.29042165 : iteration 90  
the risk is 2046.03453015 : iteration 91  
the risk is 2045.78304436 : iteration 92  
the risk is 2045.53583931 : iteration 93  
the risk is 2045.29279483 : iteration 94  
the risk is 2045.05379528 : iteration 95  
the risk is 2044.81872938 : iteration 96  
the risk is 2044.58748998 : iteration 97  
the risk is 2044.3599739 : iteration 98  
the risk is 2044.13608171 : iteration 99  
the risk is 2043.91571758 : iteration 100  
the risk is 2043.69878914 : iteration 101  
the risk is 2043.48520728 : iteration 102  
the risk is 2043.27488603 : iteration 103  
the risk is 2043.06774245 : iteration 104  
the risk is 2042.86369644 : iteration 105  
the risk is 2042.66267067 : iteration 106  
the risk is 2042.46459043 : iteration 107  
the risk is 2042.26938354 : iteration 108  
the risk is 2042.07698023 : iteration 109  
the risk is 2041.88731304 : iteration 110  
the risk is 2041.70031673 : iteration 111  
the risk is 2041.5159282 : iteration 112  
the risk is 2041.33408636 : iteration 113  
the risk is 2041.1547321 : iteration 114  
the risk is 2040.97780821 : iteration 115  
the risk is 2040.80325923 : iteration 116  
the risk is 2040.63103149 : iteration 117  
the risk is 2040.46107295 : iteration 118  
the risk is 2040.29333319 : iteration 119  
the risk is 2040.12776331 : iteration 120  
the risk is 2039.96431592 : iteration 121  
the risk is 2039.80294503 : iteration 122  
the risk is 2039.64360603 : iteration 123  
the risk is 2039.48625563 : iteration 124

the risk is 2039.3308518 : iteration 125  
the risk is 2039.17735376 : iteration 126  
the risk is 2039.02572187 : iteration 127  
the risk is 2038.87591767 : iteration 128  
the risk is 2038.72790375 : iteration 129  
the risk is 2038.58164379 : iteration 130  
the risk is 2038.43710247 : iteration 131  
the risk is 2038.29424547 : iteration 132  
the risk is 2038.15303939 : iteration 133  
the risk is 2038.01345178 : iteration 134  
the risk is 2037.87545104 : iteration 135  
the risk is 2037.73900644 : iteration 136  
the risk is 2037.60408807 : iteration 137  
the risk is 2037.47066682 : iteration 138  
the risk is 2037.33871435 : iteration 139  
the risk is 2037.20820305 : iteration 140  
the risk is 2037.07910604 : iteration 141  
the risk is 2036.95139714 : iteration 142  
the risk is 2036.82505083 : iteration 143  
the risk is 2036.70004224 : iteration 144  
the risk is 2036.57634715 : iteration 145  
the risk is 2036.45394193 : iteration 146  
the risk is 2036.33280354 : iteration 147  
the risk is 2036.21290952 : iteration 148  
the risk is 2036.09423795 : iteration 149  
the risk is 2035.97676747 : iteration 150  
the risk is 2035.86047721 : iteration 151  
the risk is 2035.74534683 : iteration 152  
the risk is 2035.63135646 : iteration 153  
the risk is 2035.51848671 : iteration 154  
the risk is 2035.40671865 : iteration 155  
the risk is 2035.29603378 : iteration 156  
the risk is 2035.18641406 : iteration 157  
the risk is 2035.07784184 : iteration 158  
the risk is 2034.97029989 : iteration 159  
the risk is 2034.86377139 : iteration 160  
the risk is 2034.75823987 : iteration 161  
the risk is 2034.65368925 : iteration 162  
the risk is 2034.55010382 : iteration 163  
the risk is 2034.44746821 : iteration 164  
the risk is 2034.34576738 : iteration 165  
the risk is 2034.24498664 : iteration 166  
the risk is 2034.14511163 : iteration 167  
the risk is 2034.04612826 : iteration 168  
the risk is 2033.9480228 : iteration 169  
the risk is 2033.85078177 : iteration 170  
the risk is 2033.754392 : iteration 171  
the risk is 2033.65884061 : iteration 172  
the risk is 2033.56411497 : iteration 173  
the risk is 2033.47020272 : iteration 174  
the risk is 2033.37709177 : iteration 175  
the risk is 2033.28477027 : iteration 176  
the risk is 2033.19322662 : iteration 177  
the risk is 2033.10244946 : iteration 178

the risk is 2033.01242764 : iteration 179  
the risk is 2032.92315028 : iteration 180  
the risk is 2032.83460667 : iteration 181  
the risk is 2032.74678635 : iteration 182  
the risk is 2032.65967906 : iteration 183  
the risk is 2032.57327474 : iteration 184  
the risk is 2032.48756351 : iteration 185  
the risk is 2032.40253573 : iteration 186  
the risk is 2032.3181819 : iteration 187  
the risk is 2032.23449273 : iteration 188  
the risk is 2032.15145911 : iteration 189  
the risk is 2032.06907209 : iteration 190  
the risk is 2031.98732291 : iteration 191  
the risk is 2031.90620296 : iteration 192  
the risk is 2031.82570379 : iteration 193  
the risk is 2031.74581712 : iteration 194  
the risk is 2031.66653484 : iteration 195  
the risk is 2031.58784895 : iteration 196  
the risk is 2031.50975162 : iteration 197  
the risk is 2031.43223518 : iteration 198  
the risk is 2031.35529208 : iteration 199  
the risk is 2031.2789149 : iteration 200  
the risk is 2031.20309638 : iteration 201  
the risk is 2031.12782936 : iteration 202  
the risk is 2031.05310685 : iteration 203  
the risk is 2030.97892193 : iteration 204  
the risk is 2030.90526786 : iteration 205  
the risk is 2030.83213798 : iteration 206  
the risk is 2030.75952575 : iteration 207  
the risk is 2030.68742476 : iteration 208  
the risk is 2030.61582871 : iteration 209  
the risk is 2030.5447314 : iteration 210  
the risk is 2030.47412674 : iteration 211  
the risk is 2030.40400874 : iteration 212  
the risk is 2030.33437152 : iteration 213  
the risk is 2030.2652093 : iteration 214  
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the risk is 2009.40321671 : iteration 1823  
the risk is 2009.40017205 : iteration 1824  
the risk is 2009.39713011 : iteration 1825  
the risk is 2009.39409087 : iteration 1826  
the risk is 2009.39105432 : iteration 1827  
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the risk is 2009.38498933 : iteration 1829  
the risk is 2009.38196086 : iteration 1830  
the risk is 2009.37893508 : iteration 1831  
the risk is 2009.37591199 : iteration 1832  
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the risk is 2009.36987383 : iteration 1834  
the risk is 2009.36685876 : iteration 1835  
the risk is 2009.36384635 : iteration 1836  
the risk is 2009.36083661 : iteration 1837  
the risk is 2009.35782953 : iteration 1838  
the risk is 2009.35482511 : iteration 1839  
the risk is 2009.35182334 : iteration 1840  
the risk is 2009.34882422 : iteration 1841  
the risk is 2009.34582775 : iteration 1842  
the risk is 2009.34283392 : iteration 1843  
the risk is 2009.33984273 : iteration 1844  
the risk is 2009.33685418 : iteration 1845  
the risk is 2009.33386826 : iteration 1846  
the risk is 2009.33088497 : iteration 1847  
the risk is 2009.3279043 : iteration 1848  
the risk is 2009.32492626 : iteration 1849  
the risk is 2009.32195083 : iteration 1850  
the risk is 2009.31897802 : iteration 1851  
the risk is 2009.31600783 : iteration 1852

the risk is 2009.31304024 : iteration 1853  
the risk is 2009.31007525 : iteration 1854  
the risk is 2009.30711287 : iteration 1855  
the risk is 2009.30415308 : iteration 1856  
the risk is 2009.30119589 : iteration 1857  
the risk is 2009.29824129 : iteration 1858  
the risk is 2009.29528928 : iteration 1859  
the risk is 2009.29233985 : iteration 1860  
the risk is 2009.28939301 : iteration 1861  
the risk is 2009.28644874 : iteration 1862  
the risk is 2009.28350705 : iteration 1863  
the risk is 2009.28056792 : iteration 1864  
the risk is 2009.27763137 : iteration 1865  
the risk is 2009.27469738 : iteration 1866  
the risk is 2009.27176595 : iteration 1867  
the risk is 2009.26883707 : iteration 1868  
the risk is 2009.26591075 : iteration 1869  
the risk is 2009.26298699 : iteration 1870  
the risk is 2009.26006577 : iteration 1871  
the risk is 2009.25714709 : iteration 1872  
the risk is 2009.25423095 : iteration 1873  
the risk is 2009.25131736 : iteration 1874  
the risk is 2009.24840629 : iteration 1875  
the risk is 2009.24549776 : iteration 1876  
the risk is 2009.24259176 : iteration 1877  
the risk is 2009.23968828 : iteration 1878  
the risk is 2009.23678732 : iteration 1879  
the risk is 2009.23388888 : iteration 1880  
the risk is 2009.23099295 : iteration 1881  
the risk is 2009.22809953 : iteration 1882  
the risk is 2009.22520863 : iteration 1883  
the risk is 2009.22232022 : iteration 1884  
the risk is 2009.21943432 : iteration 1885  
the risk is 2009.21655092 : iteration 1886  
the risk is 2009.21367001 : iteration 1887  
the risk is 2009.2107916 : iteration 1888  
the risk is 2009.20791567 : iteration 1889  
the risk is 2009.20504223 : iteration 1890  
the risk is 2009.20217127 : iteration 1891  
the risk is 2009.19930279 : iteration 1892  
the risk is 2009.19643678 : iteration 1893  
the risk is 2009.19357325 : iteration 1894  
the risk is 2009.19071219 : iteration 1895  
the risk is 2009.18785359 : iteration 1896  
the risk is 2009.18499746 : iteration 1897  
the risk is 2009.18214379 : iteration 1898  
the risk is 2009.17929257 : iteration 1899  
the risk is 2009.17644381 : iteration 1900  
the risk is 2009.1735975 : iteration 1901  
the risk is 2009.17075363 : iteration 1902  
the risk is 2009.16791221 : iteration 1903  
the risk is 2009.16507323 : iteration 1904  
the risk is 2009.16223669 : iteration 1905  
the risk is 2009.15940258 : iteration 1906

the risk is 2009.15657091 : iteration 1907  
the risk is 2009.15374166 : iteration 1908  
the risk is 2009.15091484 : iteration 1909  
the risk is 2009.14809045 : iteration 1910  
the risk is 2009.14526847 : iteration 1911  
the risk is 2009.1424489 : iteration 1912  
the risk is 2009.13963176 : iteration 1913  
the risk is 2009.13681702 : iteration 1914  
the risk is 2009.13400468 : iteration 1915  
the risk is 2009.13119476 : iteration 1916  
the risk is 2009.12838723 : iteration 1917  
the risk is 2009.1255821 : iteration 1918  
the risk is 2009.12277936 : iteration 1919  
the risk is 2009.11997902 : iteration 1920  
the risk is 2009.11718107 : iteration 1921  
the risk is 2009.1143855 : iteration 1922  
the risk is 2009.11159231 : iteration 1923  
the risk is 2009.10880151 : iteration 1924  
the risk is 2009.10601308 : iteration 1925  
the risk is 2009.10322702 : iteration 1926  
the risk is 2009.10044334 : iteration 1927  
the risk is 2009.09766202 : iteration 1928  
the risk is 2009.09488307 : iteration 1929  
the risk is 2009.09210648 : iteration 1930  
the risk is 2009.08933224 : iteration 1931  
the risk is 2009.08656037 : iteration 1932  
the risk is 2009.08379084 : iteration 1933  
the risk is 2009.08102367 : iteration 1934  
the risk is 2009.07825884 : iteration 1935  
the risk is 2009.07549636 : iteration 1936  
the risk is 2009.07273621 : iteration 1937  
the risk is 2009.06997841 : iteration 1938  
the risk is 2009.06722294 : iteration 1939  
the risk is 2009.0644698 : iteration 1940  
the risk is 2009.06171899 : iteration 1941  
the risk is 2009.05897051 : iteration 1942  
the risk is 2009.05622435 : iteration 1943  
the risk is 2009.05348051 : iteration 1944  
the risk is 2009.05073899 : iteration 1945  
the risk is 2009.04799978 : iteration 1946  
the risk is 2009.04526289 : iteration 1947  
the risk is 2009.0425283 : iteration 1948  
the risk is 2009.03979602 : iteration 1949  
the risk is 2009.03706605 : iteration 1950  
the risk is 2009.03433837 : iteration 1951  
the risk is 2009.03161299 : iteration 1952  
the risk is 2009.0288899 : iteration 1953  
the risk is 2009.02616911 : iteration 1954  
the risk is 2009.0234506 : iteration 1955  
the risk is 2009.02073439 : iteration 1956  
the risk is 2009.01802045 : iteration 1957  
the risk is 2009.01530879 : iteration 1958  
the risk is 2009.01259941 : iteration 1959  
the risk is 2009.00989231 : iteration 1960

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the risk is 2009.00718748 : iteration 1961
the risk is 2009.00448491 : iteration 1962
the risk is 2009.00178461 : iteration 1963
the risk is 2008.99908658 : iteration 1964
the risk is 2008.99639081 : iteration 1965
the risk is 2008.99369729 : iteration 1966
the risk is 2008.99100603 : iteration 1967
the risk is 2008.98831702 : iteration 1968
the risk is 2008.98563026 : iteration 1969
the risk is 2008.98294574 : iteration 1970
the risk is 2008.98026347 : iteration 1971
the risk is 2008.97758344 : iteration 1972
the risk is 2008.97490565 : iteration 1973
the risk is 2008.97223009 : iteration 1974
the risk is 2008.96955677 : iteration 1975
the risk is 2008.96688567 : iteration 1976
the risk is 2008.96421681 : iteration 1977
the risk is 2008.96155017 : iteration 1978
the risk is 2008.95888574 : iteration 1979
the risk is 2008.95622354 : iteration 1980
the risk is 2008.95356356 : iteration 1981
the risk is 2008.95090578 : iteration 1982
the risk is 2008.94825022 : iteration 1983
the risk is 2008.94559687 : iteration 1984
the risk is 2008.94294572 : iteration 1985
the risk is 2008.94029677 : iteration 1986
the risk is 2008.93765003 : iteration 1987
the risk is 2008.93500548 : iteration 1988
the risk is 2008.93236312 : iteration 1989
the risk is 2008.92972296 : iteration 1990
the risk is 2008.92708499 : iteration 1991
the risk is 2008.9244492 : iteration 1992
the risk is 2008.9218156 : iteration 1993
the risk is 2008.91918418 : iteration 1994
the risk is 2008.91655493 : iteration 1995
the risk is 2008.91392786 : iteration 1996
the risk is 2008.91130297 : iteration 1997
the risk is 2008.90868024 : iteration 1998
the risk is 2008.90605969 : iteration 1999
the risk is 2008.9034413 : iteration 2000

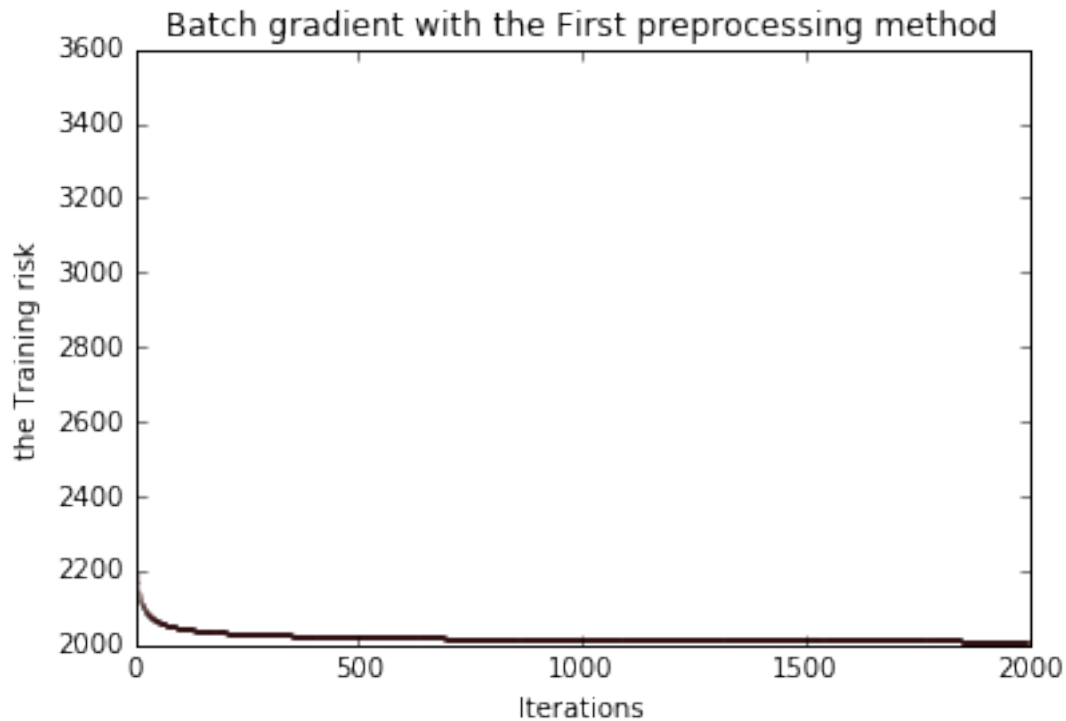
```

2000 iterations lower the training risk down to 2008.9034413. We plot the training risk (the empirical risk of the training set) vs. the number of iterations.

```

In [28]: xpos = np.arange(len(empirical_risk1[0]))+ 1
         plt.plot(xpos, empirical_risk1[0], 'ro', ms =0.4)
         plt.xlabel('Iterations')
         plt.ylabel('the Training risk')
         plt.title('Batch gradient with the First preprocessing method')
         plt.show()

```



We run the batch gradient method with learning rate  $10^5$  for the second preprocessing data.

```
In [29]: empirical_risk2 = logistic_with_batch_gradient(w_0, sp_xtrain2, sp_ytrain, 1e-5, 2000)
```

```
the risk is 3584.95721786 : iteration 1
the risk is 3297.42549882 : iteration 2
the risk is 3062.14542981 : iteration 3
the risk is 3017.58606369 : iteration 4
the risk is 2983.2229002 : iteration 5
the risk is 2954.59019699 : iteration 6
the risk is 2928.11948285 : iteration 7
the risk is 2903.12739095 : iteration 8
the risk is 2879.32569929 : iteration 9
the risk is 2856.59869658 : iteration 10
the risk is 2834.87595794 : iteration 11
the risk is 2814.10140317 : iteration 12
the risk is 2794.22548882 : iteration 13
the risk is 2775.20178215 : iteration 14
the risk is 2756.98658009 : iteration 15
the risk is 2739.53842088 : iteration 16
the risk is 2722.81804465 : iteration 17
the risk is 2706.78824526 : iteration 18
the risk is 2691.41380139 : iteration 19
the risk is 2676.66137714 : iteration 20
the risk is 2662.49943896 : iteration 21
the risk is 2648.8981665 : iteration 22
the risk is 2635.8293684 : iteration 23
the risk is 2623.26639864 : iteration 24
```

the risk is 2611.18407589 : iteration 25  
the risk is 2599.5586054 : iteration 26  
the risk is 2588.36750385 : iteration 27  
the risk is 2577.5895272 : iteration 28  
the risk is 2567.20460176 : iteration 29  
the risk is 2557.19375837 : iteration 30  
the risk is 2547.53906979 : iteration 31  
the risk is 2538.22359117 : iteration 32  
the risk is 2529.23130368 : iteration 33  
the risk is 2520.54706106 : iteration 34  
the risk is 2512.15653913 : iteration 35  
the risk is 2504.04618805 : iteration 36  
the risk is 2496.20318735 : iteration 37  
the risk is 2488.61540344 : iteration 38  
the risk is 2481.27134968 : iteration 39  
the risk is 2474.16014868 : iteration 40  
the risk is 2467.27149695 : iteration 41  
the risk is 2460.59563156 : iteration 42  
the risk is 2454.12329884 : iteration 43  
the risk is 2447.8457249 : iteration 44  
the risk is 2441.75458805 : iteration 45  
the risk is 2435.84199276 : iteration 46  
the risk is 2430.10044529 : iteration 47  
the risk is 2424.52283075 : iteration 48  
the risk is 2419.10239156 : iteration 49  
the risk is 2413.83270726 : iteration 50  
the risk is 2408.70767549 : iteration 51  
the risk is 2403.72149417 : iteration 52  
the risk is 2398.86864473 : iteration 53  
the risk is 2394.14387636 : iteration 54  
the risk is 2389.54219124 : iteration 55  
the risk is 2385.0588306 : iteration 56  
the risk is 2380.68926169 : iteration 57  
the risk is 2376.42916546 : iteration 58  
the risk is 2372.27442505 : iteration 59  
the risk is 2368.22111488 : iteration 60  
the risk is 2364.26549043 : iteration 61  
the risk is 2360.40397868 : iteration 62  
the risk is 2356.63316896 : iteration 63  
the risk is 2352.94980451 : iteration 64  
the risk is 2349.35077441 : iteration 65  
the risk is 2345.83310603 : iteration 66  
the risk is 2342.39395789 : iteration 67  
the risk is 2339.03061297 : iteration 68  
the risk is 2335.74047233 : iteration 69  
the risk is 2332.52104919 : iteration 70  
the risk is 2329.36996326 : iteration 71  
the risk is 2326.28493543 : iteration 72  
the risk is 2323.26378276 : iteration 73  
the risk is 2320.30441372 : iteration 74  
the risk is 2317.40482372 : iteration 75  
the risk is 2314.56309088 : iteration 76  
the risk is 2311.77737202 : iteration 77  
the risk is 2309.04589891 : iteration 78

the risk is 2306.36697464 : iteration 79  
the risk is 2303.73897027 : iteration 80  
the risk is 2301.16032164 : iteration 81  
the risk is 2298.62952628 : iteration 82  
the risk is 2296.14514061 : iteration 83  
the risk is 2293.70577717 : iteration 84  
the risk is 2291.31010203 : iteration 85  
the risk is 2288.95683242 : iteration 86  
the risk is 2286.64473431 : iteration 87  
the risk is 2284.37262031 : iteration 88  
the risk is 2282.1393475 : iteration 89  
the risk is 2279.94381552 : iteration 90  
the risk is 2277.78496463 : iteration 91  
the risk is 2275.66177397 : iteration 92  
the risk is 2273.57325984 : iteration 93  
the risk is 2271.51847411 : iteration 94  
the risk is 2269.49650265 : iteration 95  
the risk is 2267.5064639 : iteration 96  
the risk is 2265.5475075 : iteration 97  
the risk is 2263.61881295 : iteration 98  
the risk is 2261.71958832 : iteration 99  
the risk is 2259.84906915 : iteration 100  
the risk is 2258.00651721 : iteration 101  
the risk is 2256.1912195 : iteration 102  
the risk is 2254.40248714 : iteration 103  
the risk is 2252.63965446 : iteration 104  
the risk is 2250.90207802 : iteration 105  
the risk is 2249.18913572 : iteration 106  
the risk is 2247.50022595 : iteration 107  
the risk is 2245.83476679 : iteration 108  
the risk is 2244.19219521 : iteration 109  
the risk is 2242.57196633 : iteration 110  
the risk is 2240.97355276 : iteration 111  
the risk is 2239.39644383 : iteration 112  
the risk is 2237.84014504 : iteration 113  
the risk is 2236.30417739 : iteration 114  
the risk is 2234.7880768 : iteration 115  
the risk is 2233.29139353 : iteration 116  
the risk is 2231.81369168 : iteration 117  
the risk is 2230.35454865 : iteration 118  
the risk is 2228.91355462 : iteration 119  
the risk is 2227.49031213 : iteration 120  
the risk is 2226.0844356 : iteration 121  
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the risk is 2223.32329484 : iteration 123  
the risk is 2221.96731503 : iteration 124  
the risk is 2220.62726921 : iteration 125  
the risk is 2219.30282506 : iteration 126  
the risk is 2217.99365977 : iteration 127  
the risk is 2216.69945974 : iteration 128  
the risk is 2215.41992025 : iteration 129  
the risk is 2214.15474515 : iteration 130  
the risk is 2212.90364658 : iteration 131  
the risk is 2211.66634463 : iteration 132

the risk is 2210.44256714 : iteration 133  
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the risk is 2208.03453387 : iteration 135  
the risk is 2206.84977 : iteration 136  
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the risk is 2204.51752844 : iteration 138  
the risk is 2203.36958237 : iteration 139  
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the risk is 2194.59362786 : iteration 147  
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the risk is 2187.45505603 : iteration 154  
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the risk is 2159.81404788 : iteration 186



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the risk is 1924.40406101 : iteration 1943  
the risk is 1924.36909055 : iteration 1944  
the risk is 1924.33414551 : iteration 1945  
the risk is 1924.29922584 : iteration 1946  
the risk is 1924.26433153 : iteration 1947  
the risk is 1924.22946254 : iteration 1948  
the risk is 1924.19461885 : iteration 1949  
the risk is 1924.15980042 : iteration 1950  
the risk is 1924.12500723 : iteration 1951  
the risk is 1924.09023925 : iteration 1952  
the risk is 1924.05549645 : iteration 1953  
the risk is 1924.0207788 : iteration 1954  
the risk is 1923.98608627 : iteration 1955  
the risk is 1923.95141884 : iteration 1956  
the risk is 1923.91677647 : iteration 1957  
the risk is 1923.88215915 : iteration 1958  
the risk is 1923.84756683 : iteration 1959  
the risk is 1923.81299949 : iteration 1960  
the risk is 1923.7784571 : iteration 1961  
the risk is 1923.74393964 : iteration 1962  
the risk is 1923.70944708 : iteration 1963  
the risk is 1923.67497938 : iteration 1964  
the risk is 1923.64053653 : iteration 1965  
the risk is 1923.60611848 : iteration 1966  
the risk is 1923.57172523 : iteration 1967  
the risk is 1923.53735672 : iteration 1968

```

the risk is 1923.50301295 : iteration 1969
the risk is 1923.46869388 : iteration 1970
the risk is 1923.43439948 : iteration 1971
the risk is 1923.40012972 : iteration 1972
the risk is 1923.36588459 : iteration 1973
the risk is 1923.33166404 : iteration 1974
the risk is 1923.29746805 : iteration 1975
the risk is 1923.2632966 : iteration 1976
the risk is 1923.22914966 : iteration 1977
the risk is 1923.1950272 : iteration 1978
the risk is 1923.16092919 : iteration 1979
the risk is 1923.1268556 : iteration 1980
the risk is 1923.09280641 : iteration 1981
the risk is 1923.05878159 : iteration 1982
the risk is 1923.02478111 : iteration 1983
the risk is 1922.99080495 : iteration 1984
the risk is 1922.95685308 : iteration 1985
the risk is 1922.92292547 : iteration 1986
the risk is 1922.88902209 : iteration 1987
the risk is 1922.85514292 : iteration 1988
the risk is 1922.82128793 : iteration 1989
the risk is 1922.78745709 : iteration 1990
the risk is 1922.75365038 : iteration 1991
the risk is 1922.71986777 : iteration 1992
the risk is 1922.68610923 : iteration 1993
the risk is 1922.65237474 : iteration 1994
the risk is 1922.61866426 : iteration 1995
the risk is 1922.58497778 : iteration 1996
the risk is 1922.55131526 : iteration 1997
the risk is 1922.51767668 : iteration 1998
the risk is 1922.48406202 : iteration 1999
the risk is 1922.45047124 : iteration 2000

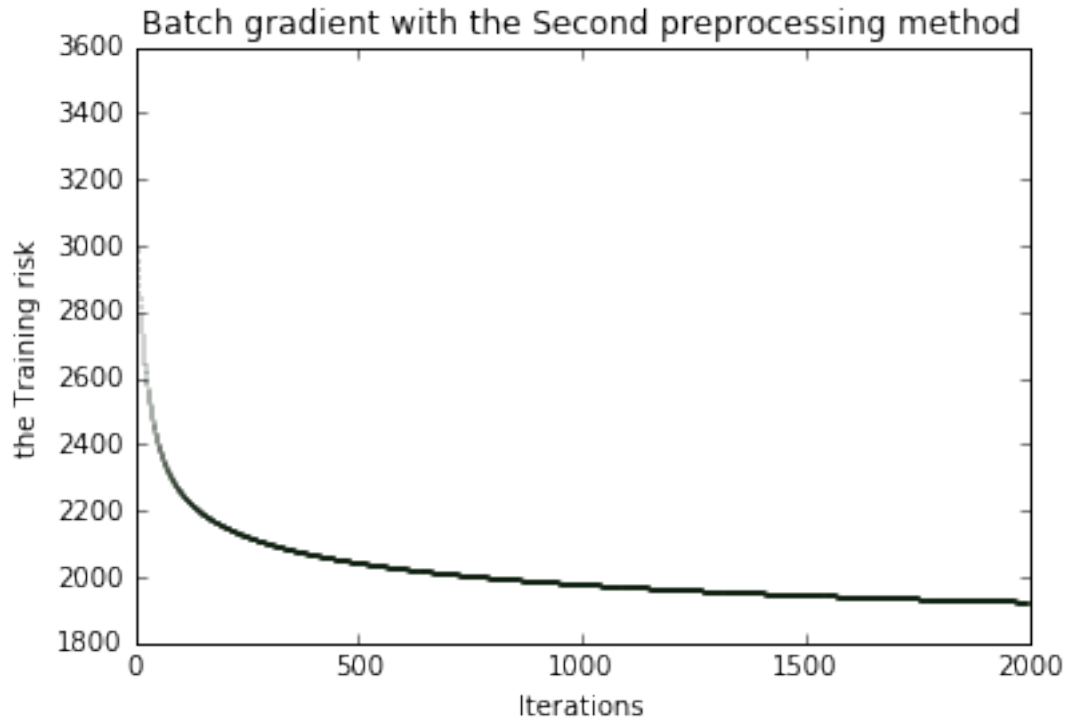
```

After 2000 iterations, the training risk decreases down to 1922.45047124, which is lower than what the first preprocessing method achieved. We plot the training risk over the number of iterations.

```

In [30]: xpos = np.arange(len(empirical_risk2[0]))+ 1
         plt.plot(xpos, empirical_risk2[0], 'go', ms = 0.4)
         plt.xlabel('Iterations')
         plt.ylabel('the Training risk')
         plt.title('Batch gradient with the Second preprocessing method')
         plt.show()

```



We run the batch gradient method with learning rate  $2 * 10^3$  for the third preprocessing data.

```
In [31]: empirical_risk3 = logistic_with_batch_gradient(w_0, sp_xtrain3, sp_ytrain, 2e-3, 2000)
```

```
the risk is 3584.95721786 : iteration 1
the risk is 4106.32058967 : iteration 2
the risk is 3197.9220317 : iteration 3
the risk is 3967.10472524 : iteration 4
the risk is 2682.77707914 : iteration 5
the risk is 2754.18057516 : iteration 6
the risk is 2463.95894291 : iteration 7
the risk is 2417.07294157 : iteration 8
the risk is 2271.68299745 : iteration 9
the risk is 2223.3775302 : iteration 10
the risk is 2155.00067837 : iteration 11
the risk is 2123.86911517 : iteration 12
the risk is 2089.30249473 : iteration 13
the risk is 2069.74877244 : iteration 14
the risk is 2050.14159893 : iteration 15
the risk is 2037.07824844 : iteration 16
the risk is 2024.64782528 : iteration 17
the risk is 2015.31136188 : iteration 18
the risk is 2006.66649052 : iteration 19
the risk is 1999.60404597 : iteration 20
the risk is 1993.12895398 : iteration 21
the risk is 1987.52734896 : iteration 22
the risk is 1982.38003115 : iteration 23
the risk is 1977.75244675 : iteration 24
```

the risk is 1973.46265985 : iteration 25  
the risk is 1969.50619858 : iteration 26  
the risk is 1965.79984485 : iteration 27  
the risk is 1962.32388258 : iteration 28  
the risk is 1959.03723767 : iteration 29  
the risk is 1955.92161228 : iteration 30  
the risk is 1952.95475934 : iteration 31  
the risk is 1950.12295997 : iteration 32  
the risk is 1947.41288441 : iteration 33  
the risk is 1944.81469486 : iteration 34  
the risk is 1942.31956196 : iteration 35  
the risk is 1939.92027508 : iteration 36  
the risk is 1937.61043713 : iteration 37  
the risk is 1935.38451123 : iteration 38  
the risk is 1933.23752373 : iteration 39  
the risk is 1931.16502195 : iteration 40  
the risk is 1929.16294464 : iteration 41  
the risk is 1927.22758369 : iteration 42  
the risk is 1925.3555179 : iteration 43  
the risk is 1923.54358719 : iteration 44  
the risk is 1921.7888541 : iteration 45  
the risk is 1920.08858601 : iteration 46  
the risk is 1918.44023047 : iteration 47  
the risk is 1916.84140185 : iteration 48  
the risk is 1915.28986422 : iteration 49  
the risk is 1913.78352062 : iteration 50  
the risk is 1912.32040042 : iteration 51  
the risk is 1910.89865044 : iteration 52  
the risk is 1909.51652517 : iteration 53  
the risk is 1908.1723793 : iteration 54  
the risk is 1906.86465994 : iteration 55  
the risk is 1905.59190031 : iteration 56  
the risk is 1904.35271341 : iteration 57  
the risk is 1903.14578667 : iteration 58  
the risk is 1901.96987673 : iteration 59  
the risk is 1900.82380491 : iteration 60  
the risk is 1899.70645282 : iteration 61  
the risk is 1898.61675855 : iteration 62  
the risk is 1897.55371296 : iteration 63  
the risk is 1896.51635641 : iteration 64  
the risk is 1895.50377565 : iteration 65  
the risk is 1894.51510094 : iteration 66  
the risk is 1893.54950351 : iteration 67  
the risk is 1892.60619303 : iteration 68  
the risk is 1891.68441539 : iteration 69  
the risk is 1890.78345059 : iteration 70  
the risk is 1889.90261078 : iteration 71  
the risk is 1889.04123846 : iteration 72  
the risk is 1888.19870477 : iteration 73  
the risk is 1887.37440792 : iteration 74  
the risk is 1886.56777172 : iteration 75  
the risk is 1885.77824421 : iteration 76  
the risk is 1885.00529635 : iteration 77  
the risk is 1884.24842085 : iteration 78

the risk is 1883.50713102 : iteration 79  
the risk is 1882.78095973 : iteration 80  
the risk is 1882.06945841 : iteration 81  
the risk is 1881.37219615 : iteration 82  
the risk is 1880.68875877 : iteration 83  
the risk is 1880.01874805 : iteration 84  
the risk is 1879.36178095 : iteration 85  
the risk is 1878.71748888 : iteration 86  
the risk is 1878.08551699 : iteration 87  
the risk is 1877.46552357 : iteration 88  
the risk is 1876.85717942 : iteration 89  
the risk is 1876.26016727 : iteration 90  
the risk is 1875.67418124 : iteration 91  
the risk is 1875.09892634 : iteration 92  
the risk is 1874.53411799 : iteration 93  
the risk is 1873.97948152 : iteration 94  
the risk is 1873.4347518 : iteration 95  
the risk is 1872.89967277 : iteration 96  
the risk is 1872.37399708 : iteration 97  
the risk is 1871.85748572 : iteration 98  
the risk is 1871.34990767 : iteration 99  
the risk is 1870.85103955 : iteration 100  
the risk is 1870.36066533 : iteration 101  
the risk is 1869.87857602 : iteration 102  
the risk is 1869.40456936 : iteration 103  
the risk is 1868.93844958 : iteration 104  
the risk is 1868.48002714 : iteration 105  
the risk is 1868.02911847 : iteration 106  
the risk is 1867.58554574 : iteration 107  
the risk is 1867.14913664 : iteration 108  
the risk is 1866.71972416 : iteration 109  
the risk is 1866.29714641 : iteration 110  
the risk is 1865.88124637 : iteration 111  
the risk is 1865.4718718 : iteration 112  
the risk is 1865.06887496 : iteration 113  
the risk is 1864.67211251 : iteration 114  
the risk is 1864.28144533 : iteration 115  
the risk is 1863.89673835 : iteration 116  
the risk is 1863.51786045 : iteration 117  
the risk is 1863.14468425 : iteration 118  
the risk is 1862.77708602 : iteration 119  
the risk is 1862.41494557 : iteration 120  
the risk is 1862.05814606 : iteration 121  
the risk is 1861.70657395 : iteration 122  
the risk is 1861.36011886 : iteration 123  
the risk is 1861.01867342 : iteration 124  
the risk is 1860.68213326 : iteration 125  
the risk is 1860.35039681 : iteration 126  
the risk is 1860.02336528 : iteration 127  
the risk is 1859.70094252 : iteration 128  
the risk is 1859.38303495 : iteration 129  
the risk is 1859.06955149 : iteration 130  
the risk is 1858.76040344 : iteration 131  
the risk is 1858.45550444 : iteration 132

the risk is 1858.15477038 : iteration 133  
the risk is 1857.85811931 : iteration 134  
the risk is 1857.5654714 : iteration 135  
the risk is 1857.27674887 : iteration 136  
the risk is 1856.99187591 : iteration 137  
the risk is 1856.7107786 : iteration 138  
the risk is 1856.4333849 : iteration 139  
the risk is 1856.15962458 : iteration 140  
the risk is 1855.88942911 : iteration 141  
the risk is 1855.62273168 : iteration 142  
the risk is 1855.3594671 : iteration 143  
the risk is 1855.0995718 : iteration 144  
the risk is 1854.8429837 : iteration 145  
the risk is 1854.58964226 : iteration 146  
the risk is 1854.33948836 : iteration 147  
the risk is 1854.0924643 : iteration 148  
the risk is 1853.84851374 : iteration 149  
the risk is 1853.60758166 : iteration 150  
the risk is 1853.36961435 : iteration 151  
the risk is 1853.13455933 : iteration 152  
the risk is 1852.90236534 : iteration 153  
the risk is 1852.67298229 : iteration 154  
the risk is 1852.44636126 : iteration 155  
the risk is 1852.22245442 : iteration 156  
the risk is 1852.00121504 : iteration 157  
the risk is 1851.78259742 : iteration 158  
the risk is 1851.5665569 : iteration 159  
the risk is 1851.35304983 : iteration 160  
the risk is 1851.14203348 : iteration 161  
the risk is 1850.93346612 : iteration 162  
the risk is 1850.72730689 : iteration 163  
the risk is 1850.52351583 : iteration 164  
the risk is 1850.32205388 : iteration 165  
the risk is 1850.12288277 : iteration 166  
the risk is 1849.92596509 : iteration 167  
the risk is 1849.73126422 : iteration 168  
the risk is 1849.53874431 : iteration 169  
the risk is 1849.34837029 : iteration 170  
the risk is 1849.16010779 : iteration 171  
the risk is 1848.9739232 : iteration 172  
the risk is 1848.78978358 : iteration 173  
the risk is 1848.6076567 : iteration 174  
the risk is 1848.42751097 : iteration 175  
the risk is 1848.24931546 : iteration 176  
the risk is 1848.07303986 : iteration 177  
the risk is 1847.89865451 : iteration 178  
the risk is 1847.7261303 : iteration 179  
the risk is 1847.55543875 : iteration 180  
the risk is 1847.38655193 : iteration 181  
the risk is 1847.21944246 : iteration 182  
the risk is 1847.05408351 : iteration 183  
the risk is 1846.8904488 : iteration 184  
the risk is 1846.72851254 : iteration 185  
the risk is 1846.56824945 : iteration 186

the risk is 1846.40963475 : iteration 187  
the risk is 1846.25264414 : iteration 188  
the risk is 1846.09725377 : iteration 189  
the risk is 1845.94344027 : iteration 190  
the risk is 1845.79118072 : iteration 191  
the risk is 1845.64045261 : iteration 192  
the risk is 1845.49123389 : iteration 193  
the risk is 1845.34350289 : iteration 194  
the risk is 1845.19723837 : iteration 195  
the risk is 1845.05241948 : iteration 196  
the risk is 1844.90902576 : iteration 197  
the risk is 1844.76703714 : iteration 198  
the risk is 1844.62643389 : iteration 199  
the risk is 1844.48719666 : iteration 200  
the risk is 1844.34930647 : iteration 201  
the risk is 1844.21274466 : iteration 202  
the risk is 1844.07749292 : iteration 203  
the risk is 1843.94353326 : iteration 204  
the risk is 1843.81084803 : iteration 205  
the risk is 1843.67941988 : iteration 206  
the risk is 1843.54923178 : iteration 207  
the risk is 1843.42026699 : iteration 208  
the risk is 1843.29250907 : iteration 209  
the risk is 1843.16594189 : iteration 210  
the risk is 1843.04054956 : iteration 211  
the risk is 1842.91631651 : iteration 212  
the risk is 1842.79322741 : iteration 213  
the risk is 1842.67126721 : iteration 214  
the risk is 1842.55042112 : iteration 215  
the risk is 1842.43067459 : iteration 216  
the risk is 1842.31201333 : iteration 217  
the risk is 1842.19442329 : iteration 218  
the risk is 1842.07789065 : iteration 219  
the risk is 1841.96240185 : iteration 220  
the risk is 1841.84794352 : iteration 221  
the risk is 1841.73450255 : iteration 222  
the risk is 1841.62206601 : iteration 223  
the risk is 1841.51062123 : iteration 224  
the risk is 1841.4001557 : iteration 225  
the risk is 1841.29065715 : iteration 226  
the risk is 1841.1821135 : iteration 227  
the risk is 1841.07451288 : iteration 228  
the risk is 1840.96784359 : iteration 229  
the risk is 1840.86209414 : iteration 230  
the risk is 1840.75725321 : iteration 231  
the risk is 1840.65330967 : iteration 232  
the risk is 1840.55025257 : iteration 233  
the risk is 1840.44807113 : iteration 234  
the risk is 1840.34675474 : iteration 235  
the risk is 1840.24629297 : iteration 236  
the risk is 1840.14667554 : iteration 237  
the risk is 1840.04789233 : iteration 238  
the risk is 1839.9499334 : iteration 239  
the risk is 1839.85278894 : iteration 240

the risk is 1839.75644931 : iteration 241  
the risk is 1839.66090501 : iteration 242  
the risk is 1839.56614669 : iteration 243  
the risk is 1839.47216513 : iteration 244  
the risk is 1839.37895127 : iteration 245  
the risk is 1839.28649619 : iteration 246  
the risk is 1839.19479109 : iteration 247  
the risk is 1839.10382731 : iteration 248  
the risk is 1839.01359631 : iteration 249  
the risk is 1838.92408971 : iteration 250  
the risk is 1838.83529922 : iteration 251  
the risk is 1838.74721669 : iteration 252  
the risk is 1838.65983408 : iteration 253  
the risk is 1838.5731435 : iteration 254  
the risk is 1838.48713713 : iteration 255  
the risk is 1838.40180731 : iteration 256  
the risk is 1838.31714646 : iteration 257  
the risk is 1838.23314712 : iteration 258  
the risk is 1838.14980195 : iteration 259  
the risk is 1838.0671037 : iteration 260  
the risk is 1837.98504523 : iteration 261  
the risk is 1837.90361951 : iteration 262  
the risk is 1837.8228196 : iteration 263  
the risk is 1837.74263867 : iteration 264  
the risk is 1837.66306998 : iteration 265  
the risk is 1837.58410688 : iteration 266  
the risk is 1837.50574284 : iteration 267  
the risk is 1837.42797138 : iteration 268  
the risk is 1837.35078615 : iteration 269  
the risk is 1837.27418087 : iteration 270  
the risk is 1837.19814935 : iteration 271  
the risk is 1837.12268549 : iteration 272  
the risk is 1837.04778327 : iteration 273  
the risk is 1836.97343675 : iteration 274  
the risk is 1836.89964009 : iteration 275  
the risk is 1836.8263875 : iteration 276  
the risk is 1836.75367329 : iteration 277  
the risk is 1836.68149186 : iteration 278  
the risk is 1836.60983765 : iteration 279  
the risk is 1836.5387052 : iteration 280  
the risk is 1836.46808912 : iteration 281  
the risk is 1836.3979841 : iteration 282  
the risk is 1836.32838488 : iteration 283  
the risk is 1836.25928628 : iteration 284  
the risk is 1836.19068321 : iteration 285  
the risk is 1836.12257061 : iteration 286  
the risk is 1836.05494352 : iteration 287  
the risk is 1835.98779702 : iteration 288  
the risk is 1835.92112627 : iteration 289  
the risk is 1835.8549265 : iteration 290  
the risk is 1835.78919298 : iteration 291  
the risk is 1835.72392106 : iteration 292  
the risk is 1835.65910615 : iteration 293  
the risk is 1835.59474369 : iteration 294



the risk is 1835.53082923 : iteration 295  
the risk is 1835.46735834 : iteration 296  
the risk is 1835.40432665 : iteration 297  
the risk is 1835.34172986 : iteration 298  
the risk is 1835.27956372 : iteration 299  
the risk is 1835.21782402 : iteration 300  
the risk is 1835.15650662 : iteration 301  
the risk is 1835.09560744 : iteration 302  
the risk is 1835.03512242 : iteration 303  
the risk is 1834.97504757 : iteration 304  
the risk is 1834.91537897 : iteration 305  
the risk is 1834.8561127 : iteration 306  
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the risk is 1834.68068979 : iteration 309  
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the risk is 1834.39601566 : iteration 314  
the risk is 1834.34020312 : iteration 315  
the risk is 1834.28475656 : iteration 316  
the risk is 1834.22967258 : iteration 317  
the risk is 1834.17494782 : iteration 318  
the risk is 1834.12057896 : iteration 319  
the risk is 1834.06656273 : iteration 320  
the risk is 1834.01289588 : iteration 321  
the risk is 1833.95957523 : iteration 322  
the risk is 1833.9065976 : iteration 323  
the risk is 1833.85395988 : iteration 324  
the risk is 1833.80165898 : iteration 325  
the risk is 1833.74969185 : iteration 326  
the risk is 1833.69805547 : iteration 327  
the risk is 1833.64674686 : iteration 328  
the risk is 1833.59576309 : iteration 329  
the risk is 1833.54510123 : iteration 330  
the risk is 1833.49475842 : iteration 331  
the risk is 1833.44473181 : iteration 332  
the risk is 1833.39501859 : iteration 333  
the risk is 1833.34561599 : iteration 334  
the risk is 1833.29652125 : iteration 335  
the risk is 1833.24773166 : iteration 336  
the risk is 1833.19924454 : iteration 337  
the risk is 1833.15105724 : iteration 338  
the risk is 1833.10316713 : iteration 339  
the risk is 1833.05557162 : iteration 340  
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the risk is 1832.9145272 : iteration 343  
the risk is 1832.86808474 : iteration 344  
the risk is 1832.82192435 : iteration 345  
the risk is 1832.7760436 : iteration 346  
the risk is 1832.7304401 : iteration 347  
the risk is 1832.68511148 : iteration 348

the risk is 1832.64005539 : iteration 349  
the risk is 1832.59526952 : iteration 350  
the risk is 1832.55075157 : iteration 351  
the risk is 1832.50649928 : iteration 352  
the risk is 1832.4625104 : iteration 353  
the risk is 1832.41878273 : iteration 354  
the risk is 1832.37531405 : iteration 355  
the risk is 1832.33210221 : iteration 356  
the risk is 1832.28914506 : iteration 357  
the risk is 1832.24644048 : iteration 358  
the risk is 1832.20398636 : iteration 359  
the risk is 1832.16178063 : iteration 360  
the risk is 1832.11982123 : iteration 361  
the risk is 1832.07810613 : iteration 362  
the risk is 1832.03663332 : iteration 363  
the risk is 1831.9954008 : iteration 364  
the risk is 1831.95440662 : iteration 365  
the risk is 1831.91364882 : iteration 366  
the risk is 1831.87312547 : iteration 367  
the risk is 1831.83283466 : iteration 368  
the risk is 1831.79277452 : iteration 369  
the risk is 1831.75294317 : iteration 370  
the risk is 1831.71333876 : iteration 371  
the risk is 1831.67395946 : iteration 372  
the risk is 1831.63480348 : iteration 373  
the risk is 1831.59586901 : iteration 374  
the risk is 1831.55715428 : iteration 375  
the risk is 1831.51865754 : iteration 376  
the risk is 1831.48037705 : iteration 377  
the risk is 1831.4423111 : iteration 378  
the risk is 1831.40445799 : iteration 379  
the risk is 1831.36681603 : iteration 380  
the risk is 1831.32938355 : iteration 381  
the risk is 1831.29215891 : iteration 382  
the risk is 1831.25514048 : iteration 383  
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the risk is 1831.14530636 : iteration 386  
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the risk is 1831.0372709 : iteration 389  
the risk is 1831.00165159 : iteration 390  
the risk is 1830.966226 : iteration 391  
the risk is 1830.93099265 : iteration 392  
the risk is 1830.89595007 : iteration 393  
the risk is 1830.86109679 : iteration 394  
the risk is 1830.82643136 : iteration 395  
the risk is 1830.79195236 : iteration 396  
the risk is 1830.75765837 : iteration 397  
the risk is 1830.72354798 : iteration 398  
the risk is 1830.6896198 : iteration 399  
the risk is 1830.65587245 : iteration 400  
the risk is 1830.62230458 : iteration 401  
the risk is 1830.58891483 : iteration 402

the risk is 1830.55570187 : iteration 403  
the risk is 1830.52266436 : iteration 404  
the risk is 1830.48980101 : iteration 405  
the risk is 1830.45711051 : iteration 406  
the risk is 1830.42459157 : iteration 407  
the risk is 1830.39224292 : iteration 408  
the risk is 1830.3600633 : iteration 409  
the risk is 1830.32805146 : iteration 410  
the risk is 1830.29620617 : iteration 411  
the risk is 1830.26452619 : iteration 412  
the risk is 1830.23301031 : iteration 413  
the risk is 1830.20165734 : iteration 414  
the risk is 1830.17046607 : iteration 415  
the risk is 1830.13943533 : iteration 416  
the risk is 1830.10856395 : iteration 417  
the risk is 1830.07785077 : iteration 418  
the risk is 1830.04729464 : iteration 419  
the risk is 1830.01689443 : iteration 420  
the risk is 1829.98664901 : iteration 421  
the risk is 1829.95655727 : iteration 422  
the risk is 1829.9266181 : iteration 423  
the risk is 1829.89683041 : iteration 424  
the risk is 1829.8671931 : iteration 425  
the risk is 1829.83770512 : iteration 426  
the risk is 1829.80836539 : iteration 427  
the risk is 1829.77917285 : iteration 428  
the risk is 1829.75012647 : iteration 429  
the risk is 1829.7212252 : iteration 430  
the risk is 1829.69246802 : iteration 431  
the risk is 1829.66385392 : iteration 432  
the risk is 1829.63538188 : iteration 433  
the risk is 1829.6070509 : iteration 434  
the risk is 1829.57886001 : iteration 435  
the risk is 1829.55080821 : iteration 436  
the risk is 1829.52289453 : iteration 437  
the risk is 1829.49511802 : iteration 438  
the risk is 1829.46747772 : iteration 439  
the risk is 1829.43997268 : iteration 440  
the risk is 1829.41260196 : iteration 441  
the risk is 1829.38536463 : iteration 442  
the risk is 1829.35825979 : iteration 443  
the risk is 1829.3312865 : iteration 444  
the risk is 1829.30444387 : iteration 445  
the risk is 1829.27773101 : iteration 446  
the risk is 1829.25114702 : iteration 447  
the risk is 1829.22469101 : iteration 448  
the risk is 1829.19836213 : iteration 449  
the risk is 1829.17215951 : iteration 450  
the risk is 1829.14608228 : iteration 451  
the risk is 1829.12012959 : iteration 452  
the risk is 1829.09430062 : iteration 453  
the risk is 1829.0685945 : iteration 454  
the risk is 1829.04301043 : iteration 455  
the risk is 1829.01754758 : iteration 456

the risk is 1828.99220514 : iteration 457  
the risk is 1828.96698229 : iteration 458  
the risk is 1828.94187824 : iteration 459  
the risk is 1828.9168922 : iteration 460  
the risk is 1828.89202338 : iteration 461  
the risk is 1828.86727099 : iteration 462  
the risk is 1828.84263428 : iteration 463  
the risk is 1828.81811247 : iteration 464  
the risk is 1828.7937048 : iteration 465  
the risk is 1828.76941051 : iteration 466  
the risk is 1828.74522887 : iteration 467  
the risk is 1828.72115914 : iteration 468  
the risk is 1828.69720056 : iteration 469  
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the risk is 1820.97405768 : iteration 1986
the risk is 1820.97300478 : iteration 1987
the risk is 1820.97195296 : iteration 1988
the risk is 1820.97090222 : iteration 1989
the risk is 1820.96985255 : iteration 1990
the risk is 1820.96880396 : iteration 1991
the risk is 1820.96775644 : iteration 1992
the risk is 1820.96670999 : iteration 1993
the risk is 1820.96566461 : iteration 1994
the risk is 1820.9646203 : iteration 1995
the risk is 1820.96357705 : iteration 1996
the risk is 1820.96253487 : iteration 1997
the risk is 1820.96149375 : iteration 1998
the risk is 1820.96045369 : iteration 1999
the risk is 1820.95941468 : iteration 2000

```

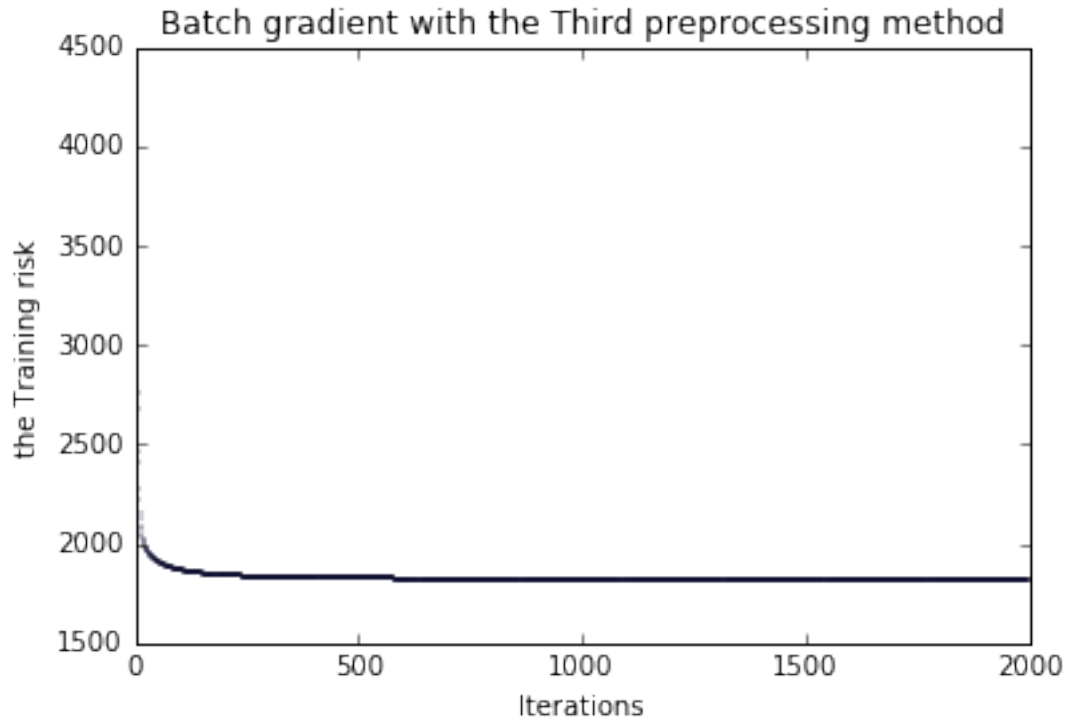
After 2000 iterations, the training risk decreases down to 1820.95941468, which is the lowest among the three preprocessing method. We plot the training risk over the number of iterations.

```

In [32]: xpos = np.arange(len(empirical_risk3[0]))+ 1
         plt.plot(xpos, empirical_risk3[0], 'bo', ms =0.4)
         plt.xlabel('Iterations')
         plt.ylabel('the Training risk')
         plt.title('Batch gradient with the Third preprocessing method')
         plt.show()

```





### Stochastic Gradient Descent

In [3]: `import numpy.random as nr`

```
In [342]: def logistic_with_stochastic_gradient(w,X,y,e,n):
            w_temp = w
            risk = []
            nr.seed(0)
            indice = nr.choice(X.shape[0], n, replace =True)
            for i in np.arange(n):
                risk_temp = R(w_temp,X,y)
                j = indice[i]
                print ('the risk is ', risk_temp ,': iteration ', (i+1))
                w_temp = w_temp + e* (y[j]- s(np.dot(X[j,], w_temp)))* X[j,]
                risk = risk + [risk_temp]
            return risk
```

We run the stochastic gradient descent with learning rate  $10^{-2}$  on the first preprocessed data.

In [349]: `training_risk1 = logistic_with_stochastic_gradient(w_0,sp_xtrain1,sp_ytrain,1e-2,3000)`

```
the risk is 3584.95721786 : iteration 1
the risk is 3577.18569409 : iteration 2
the risk is 3569.54942435 : iteration 3
the risk is 3557.08974585 : iteration 4
the risk is 3549.43081846 : iteration 5
the risk is 3545.22638536 : iteration 6
the risk is 3544.27684629 : iteration 7
```

the risk is 3534.37127469 : iteration 8  
the risk is 3521.67164286 : iteration 9  
the risk is 3512.63615729 : iteration 10  
the risk is 3518.75145277 : iteration 11  
the risk is 3511.14625084 : iteration 12  
the risk is 3516.26246308 : iteration 13  
the risk is 3508.58262118 : iteration 14  
the risk is 3500.66896103 : iteration 15  
the risk is 3493.09239735 : iteration 16  
the risk is 3500.97145271 : iteration 17  
the risk is 3493.3863881 : iteration 18  
the risk is 3482.51558683 : iteration 19  
the risk is 3472.46802122 : iteration 20  
the risk is 3466.59259916 : iteration 21  
the risk is 3457.72090377 : iteration 22  
the risk is 3450.35180496 : iteration 23  
the risk is 3443.11808314 : iteration 24  
the risk is 3449.01108717 : iteration 25  
the risk is 3442.22599483 : iteration 26  
the risk is 3448.26889464 : iteration 27  
the risk is 3456.05512175 : iteration 28  
the risk is 3463.86098586 : iteration 29  
the risk is 3454.93741663 : iteration 30  
the risk is 3459.5315027 : iteration 31  
the risk is 3453.06595313 : iteration 32  
the risk is 3445.59729613 : iteration 33  
the risk is 3439.20602704 : iteration 34  
the risk is 3447.13140673 : iteration 35  
the risk is 3455.12634133 : iteration 36  
the risk is 3446.65586594 : iteration 37  
the risk is 3454.67561297 : iteration 38  
the risk is 3447.14142186 : iteration 39  
the risk is 3440.31962577 : iteration 40  
the risk is 3417.8220573 : iteration 41  
the risk is 3425.9929518 : iteration 42  
the risk is 3423.46300165 : iteration 43  
the risk is 3410.42703894 : iteration 44  
the risk is 3401.54164002 : iteration 45  
the risk is 3393.61064446 : iteration 46  
the risk is 3385.87762433 : iteration 47  
the risk is 3378.30038313 : iteration 48  
the risk is 3386.32878838 : iteration 49  
the risk is 3378.56861272 : iteration 50  
the risk is 3369.39342896 : iteration 51  
the risk is 3361.91195009 : iteration 52  
the risk is 3354.51061865 : iteration 53  
the risk is 3346.60594469 : iteration 54  
the risk is 3339.39967714 : iteration 55  
the risk is 3332.31435015 : iteration 56  
the risk is 3326.65999004 : iteration 57  
the risk is 3319.31121146 : iteration 58  
the risk is 3312.46758748 : iteration 59  
the risk is 3307.71122174 : iteration 60  
the risk is 3309.3989276 : iteration 61

the risk is 3302.64669733 : iteration 62  
the risk is 3296.00972346 : iteration 63  
the risk is 3290.3806951 : iteration 64  
the risk is 3283.90390657 : iteration 65  
the risk is 3278.18561173 : iteration 66  
the risk is 3288.8821967 : iteration 67  
the risk is 3282.91732944 : iteration 68  
the risk is 3272.00379351 : iteration 69  
the risk is 3277.7462324 : iteration 70  
the risk is 3272.96241854 : iteration 71  
the risk is 3280.57557225 : iteration 72  
the risk is 3277.49580768 : iteration 73  
the risk is 3272.14430016 : iteration 74  
the risk is 3272.5045552 : iteration 75  
the risk is 3266.15966887 : iteration 76  
the risk is 3274.38654206 : iteration 77  
the risk is 3267.88592518 : iteration 78  
the risk is 3261.45544338 : iteration 79  
the risk is 3255.14320856 : iteration 80  
the risk is 3246.11816682 : iteration 81  
the risk is 3236.16604465 : iteration 82  
the risk is 3207.39305031 : iteration 83  
the risk is 3194.01582064 : iteration 84  
the risk is 3196.5744987 : iteration 85  
the risk is 3190.6256768 : iteration 86  
the risk is 3182.17495911 : iteration 87  
the risk is 3177.6487666 : iteration 88  
the risk is 3171.43079096 : iteration 89  
the risk is 3160.0301064 : iteration 90  
the risk is 3156.22641531 : iteration 91  
the risk is 3152.90160632 : iteration 92  
the risk is 3157.98236835 : iteration 93  
the risk is 3151.26476798 : iteration 94  
the risk is 3150.99877652 : iteration 95  
the risk is 3144.62778795 : iteration 96  
the risk is 3136.18770328 : iteration 97  
the risk is 3130.64708653 : iteration 98  
the risk is 3132.57475026 : iteration 99  
the risk is 3131.46577328 : iteration 100  
the risk is 3127.05483571 : iteration 101  
the risk is 3121.67617444 : iteration 102  
the risk is 3115.81892746 : iteration 103  
the risk is 3122.54193026 : iteration 104  
the risk is 3117.14527617 : iteration 105  
the risk is 3110.13065991 : iteration 106  
the risk is 3103.22468107 : iteration 107  
the risk is 3098.73366891 : iteration 108  
the risk is 3093.34726248 : iteration 109  
the risk is 3088.06876366 : iteration 110  
the risk is 3084.10202764 : iteration 111  
the risk is 3090.84202942 : iteration 112  
the risk is 3084.73394217 : iteration 113  
the risk is 3077.82345798 : iteration 114  
the risk is 3076.97482616 : iteration 115

the risk is 3071.70506931 : iteration 116  
the risk is 3066.5393033 : iteration 117  
the risk is 3069.89748655 : iteration 118  
the risk is 3076.53161149 : iteration 119  
the risk is 3075.49819197 : iteration 120  
the risk is 3070.1331037 : iteration 121  
the risk is 3065.02971666 : iteration 122  
the risk is 3060.37532023 : iteration 123  
the risk is 3057.4267916 : iteration 124  
the risk is 3052.35501872 : iteration 125  
the risk is 3044.6639053 : iteration 126  
the risk is 3051.31397817 : iteration 127  
the risk is 3045.92025496 : iteration 128  
the risk is 3040.31746591 : iteration 129  
the risk is 3035.4642725 : iteration 130  
the risk is 3030.24103178 : iteration 131  
the risk is 3033.11842858 : iteration 132  
the risk is 3027.75059868 : iteration 133  
the risk is 3022.82376275 : iteration 134  
the risk is 3013.7998786 : iteration 135  
the risk is 3009.12664561 : iteration 136  
the risk is 3009.98763878 : iteration 137  
the risk is 3005.21296305 : iteration 138  
the risk is 3000.21977481 : iteration 139  
the risk is 2995.86820153 : iteration 140  
the risk is 2990.66782805 : iteration 141  
the risk is 2995.55016241 : iteration 142  
the risk is 2989.0021896 : iteration 143  
the risk is 2991.39686046 : iteration 144  
the risk is 2991.81781825 : iteration 145  
the risk is 2987.10984875 : iteration 146  
the risk is 2981.27488527 : iteration 147  
the risk is 2986.15649894 : iteration 148  
the risk is 2986.92953505 : iteration 149  
the risk is 2981.42504986 : iteration 150  
the risk is 2977.7675495 : iteration 151  
the risk is 2973.10770306 : iteration 152  
the risk is 2979.3808327 : iteration 153  
the risk is 2976.81543682 : iteration 154  
the risk is 2972.29281657 : iteration 155  
the risk is 2968.28717169 : iteration 156  
the risk is 2963.3825617 : iteration 157  
the risk is 2969.62791037 : iteration 158  
the risk is 2962.76715529 : iteration 159  
the risk is 2962.43840097 : iteration 160  
the risk is 2959.00040318 : iteration 161  
the risk is 2954.12194674 : iteration 162  
the risk is 2949.8426919 : iteration 163  
the risk is 2947.54549584 : iteration 164  
the risk is 2943.06144911 : iteration 165  
the risk is 2938.65042918 : iteration 166  
the risk is 2944.73416165 : iteration 167  
the risk is 2938.39995499 : iteration 168  
the risk is 2934.03996818 : iteration 169

the risk is 2929.76354335 : iteration 170  
the risk is 2925.56962026 : iteration 171  
the risk is 2920.82795622 : iteration 172  
the risk is 2916.75106761 : iteration 173  
the risk is 2912.59498899 : iteration 174  
the risk is 2909.51664037 : iteration 175  
the risk is 2904.59631452 : iteration 176  
the risk is 2900.64197973 : iteration 177  
the risk is 2896.74329818 : iteration 178  
the risk is 2903.01399762 : iteration 179  
the risk is 2898.85342066 : iteration 180  
the risk is 2899.5806884 : iteration 181  
the risk is 2905.32747235 : iteration 182  
the risk is 2901.46669512 : iteration 183  
the risk is 2901.32069394 : iteration 184  
the risk is 2897.35880199 : iteration 185  
the risk is 2894.97936415 : iteration 186  
the risk is 2890.99950946 : iteration 187  
the risk is 2872.38781071 : iteration 188  
the risk is 2868.44360999 : iteration 189  
the risk is 2872.67423716 : iteration 190  
the risk is 2878.04930379 : iteration 191  
the risk is 2874.36410227 : iteration 192  
the risk is 2870.69092392 : iteration 193  
the risk is 2868.29933483 : iteration 194  
the risk is 2864.48178555 : iteration 195  
the risk is 2868.37033894 : iteration 196  
the risk is 2868.30568486 : iteration 197  
the risk is 2866.29731321 : iteration 198  
the risk is 2863.37807165 : iteration 199  
the risk is 2856.28153806 : iteration 200  
the risk is 2852.54998953 : iteration 201  
the risk is 2848.33684829 : iteration 202  
the risk is 2848.88505612 : iteration 203  
the risk is 2845.2053534 : iteration 204  
the risk is 2841.65448441 : iteration 205  
the risk is 2838.16044748 : iteration 206  
the risk is 2833.41641114 : iteration 207  
the risk is 2829.98167421 : iteration 208  
the risk is 2828.00593555 : iteration 209  
the risk is 2824.59014308 : iteration 210  
the risk is 2820.96603639 : iteration 211  
the risk is 2826.63687213 : iteration 212  
the risk is 2831.88672692 : iteration 213  
the risk is 2836.38864107 : iteration 214  
the risk is 2829.79396475 : iteration 215  
the risk is 2825.31179618 : iteration 216  
the risk is 2820.61474876 : iteration 217  
the risk is 2815.85073324 : iteration 218  
the risk is 2811.33206894 : iteration 219  
the risk is 2808.11090574 : iteration 220  
the risk is 2804.62171373 : iteration 221  
the risk is 2801.07490425 : iteration 222  
the risk is 2797.52879565 : iteration 223

the risk is 2795.41776614 : iteration 224  
the risk is 2792.10228984 : iteration 225  
the risk is 2790.62795481 : iteration 226  
the risk is 2787.80081836 : iteration 227  
the risk is 2788.9143706 : iteration 228  
the risk is 2794.16855581 : iteration 229  
the risk is 2791.8424895 : iteration 230  
the risk is 2788.40446737 : iteration 231  
the risk is 2785.30858889 : iteration 232  
the risk is 2777.13152608 : iteration 233  
the risk is 2775.96474914 : iteration 234  
the risk is 2773.1478763 : iteration 235  
the risk is 2770.45655296 : iteration 236  
the risk is 2766.12000889 : iteration 237  
the risk is 2762.9487802 : iteration 238  
the risk is 2765.98320761 : iteration 239  
the risk is 2762.79973377 : iteration 240  
the risk is 2759.65974399 : iteration 241  
the risk is 2756.06231505 : iteration 242  
the risk is 2753.01578089 : iteration 243  
the risk is 2757.88106199 : iteration 244  
the risk is 2754.82470754 : iteration 245  
the risk is 2753.23671188 : iteration 246  
the risk is 2758.13104873 : iteration 247  
the risk is 2756.40093152 : iteration 248  
the risk is 2761.42099073 : iteration 249  
the risk is 2758.29802982 : iteration 250  
the risk is 2754.87051543 : iteration 251  
the risk is 2751.56996658 : iteration 252  
the risk is 2755.34184928 : iteration 253  
the risk is 2752.26159339 : iteration 254  
the risk is 2751.72679275 : iteration 255  
the risk is 2747.76616072 : iteration 256  
the risk is 2748.60176719 : iteration 257  
the risk is 2752.88433474 : iteration 258  
the risk is 2748.60467573 : iteration 259  
the risk is 2746.96047979 : iteration 260  
the risk is 2751.91900539 : iteration 261  
the risk is 2749.07838531 : iteration 262  
the risk is 2754.42632691 : iteration 263  
the risk is 2751.32768716 : iteration 264  
the risk is 2748.27506292 : iteration 265  
the risk is 2745.65002555 : iteration 266  
the risk is 2750.42101528 : iteration 267  
the risk is 2747.77832048 : iteration 268  
the risk is 2744.1731398 : iteration 269  
the risk is 2741.99055222 : iteration 270  
the risk is 2741.38722471 : iteration 271  
the risk is 2738.47749939 : iteration 272  
the risk is 2738.12154535 : iteration 273  
the risk is 2735.28000212 : iteration 274  
the risk is 2734.76140007 : iteration 275  
the risk is 2734.36249554 : iteration 276  
the risk is 2740.72415482 : iteration 277

the risk is 2737.64456157 : iteration 278  
the risk is 2734.20215783 : iteration 279  
the risk is 2731.33788146 : iteration 280  
the risk is 2726.56935018 : iteration 281  
the risk is 2723.84158288 : iteration 282  
the risk is 2727.33756742 : iteration 283  
the risk is 2730.91789034 : iteration 284  
the risk is 2728.07895394 : iteration 285  
the risk is 2731.81497443 : iteration 286  
the risk is 2730.78428422 : iteration 287  
the risk is 2728.15403784 : iteration 288  
the risk is 2725.27221394 : iteration 289  
the risk is 2724.29692636 : iteration 290  
the risk is 2721.46784558 : iteration 291  
the risk is 2719.46540382 : iteration 292  
the risk is 2723.99845442 : iteration 293  
the risk is 2723.87665768 : iteration 294  
the risk is 2721.02538596 : iteration 295  
the risk is 2718.35440204 : iteration 296  
the risk is 2722.93692126 : iteration 297  
the risk is 2720.41125776 : iteration 298  
the risk is 2715.1048541 : iteration 299  
the risk is 2712.217284 : iteration 300  
the risk is 2714.8299006 : iteration 301  
the risk is 2712.72856504 : iteration 302  
the risk is 2709.79239792 : iteration 303  
the risk is 2708.00056485 : iteration 304  
the risk is 2705.15238471 : iteration 305  
the risk is 2709.88211847 : iteration 306  
the risk is 2714.62117948 : iteration 307  
the risk is 2711.62930401 : iteration 308  
the risk is 2716.41099675 : iteration 309  
the risk is 2714.88385203 : iteration 310  
the risk is 2711.82886687 : iteration 311  
the risk is 2710.51055079 : iteration 312  
the risk is 2707.542048 : iteration 313  
the risk is 2704.63276938 : iteration 314  
the risk is 2701.77864495 : iteration 315  
the risk is 2699.19006437 : iteration 316  
the risk is 2703.81291288 : iteration 317  
the risk is 2703.19969378 : iteration 318  
the risk is 2701.20914247 : iteration 319  
the risk is 2698.37819521 : iteration 320  
the risk is 2702.87488438 : iteration 321  
the risk is 2702.69613206 : iteration 322  
the risk is 2700.72086682 : iteration 323  
the risk is 2697.30807712 : iteration 324  
the risk is 2697.83310521 : iteration 325  
the risk is 2696.16904715 : iteration 326  
the risk is 2693.27073911 : iteration 327  
the risk is 2691.7458319 : iteration 328  
the risk is 2688.93015945 : iteration 329  
the risk is 2687.85098769 : iteration 330  
the risk is 2685.09047996 : iteration 331

the risk is 2682.39243662 : iteration 332  
the risk is 2681.88129941 : iteration 333  
the risk is 2682.09759789 : iteration 334  
the risk is 2682.00913434 : iteration 335  
the risk is 2679.08180877 : iteration 336  
the risk is 2676.49416994 : iteration 337  
the risk is 2677.31798808 : iteration 338  
the risk is 2678.0422663 : iteration 339  
the risk is 2675.46285542 : iteration 340  
the risk is 2672.92416943 : iteration 341  
the risk is 2670.43928944 : iteration 342  
the risk is 2668.0023701 : iteration 343  
the risk is 2672.18436722 : iteration 344  
the risk is 2669.68756147 : iteration 345  
the risk is 2667.24619328 : iteration 346  
the risk is 2663.46344592 : iteration 347  
the risk is 2661.26710423 : iteration 348  
the risk is 2670.19139069 : iteration 349  
the risk is 2668.53138582 : iteration 350  
the risk is 2665.80288943 : iteration 351  
the risk is 2663.46572481 : iteration 352  
the risk is 2661.77532936 : iteration 353  
the risk is 2666.00440404 : iteration 354  
the risk is 2663.49165735 : iteration 355  
the risk is 2663.26214754 : iteration 356  
the risk is 2660.87584016 : iteration 357  
the risk is 2659.29653575 : iteration 358  
the risk is 2656.90747586 : iteration 359  
the risk is 2655.43932866 : iteration 360  
the risk is 2660.1888988 : iteration 361  
the risk is 2657.86116861 : iteration 362  
the risk is 2654.77380561 : iteration 363  
the risk is 2652.67679094 : iteration 364  
the risk is 2651.58803024 : iteration 365  
the risk is 2648.66397108 : iteration 366  
the risk is 2652.85432791 : iteration 367  
the risk is 2651.68876604 : iteration 368  
the risk is 2655.87133882 : iteration 369  
the risk is 2653.05619475 : iteration 370  
the risk is 2650.33176955 : iteration 371  
the risk is 2647.89998748 : iteration 372  
the risk is 2645.52122545 : iteration 373  
the risk is 2647.7584813 : iteration 374  
the risk is 2645.20294119 : iteration 375  
the risk is 2642.7649542 : iteration 376  
the risk is 2641.24875792 : iteration 377  
the risk is 2638.58821674 : iteration 378  
the risk is 2636.11602246 : iteration 379  
the risk is 2633.98099641 : iteration 380  
the risk is 2631.71228138 : iteration 381  
the risk is 2630.56331982 : iteration 382  
the risk is 2629.29456449 : iteration 383  
the risk is 2626.97777507 : iteration 384  
the risk is 2625.1818055 : iteration 385



the risk is 2628.99761739 : iteration 386  
the risk is 2627.06567316 : iteration 387  
the risk is 2630.95084275 : iteration 388  
the risk is 2628.61168002 : iteration 389  
the risk is 2626.42527872 : iteration 390  
the risk is 2624.07198754 : iteration 391  
the risk is 2626.50716813 : iteration 392  
the risk is 2624.34246875 : iteration 393  
the risk is 2622.24408266 : iteration 394  
the risk is 2620.05748764 : iteration 395  
the risk is 2618.04908439 : iteration 396  
the risk is 2622.10677269 : iteration 397  
the risk is 2620.08128625 : iteration 398  
the risk is 2617.71055583 : iteration 399  
the risk is 2615.71709625 : iteration 400  
the risk is 2615.71747478 : iteration 401  
the risk is 2613.73003827 : iteration 402  
the risk is 2611.83712874 : iteration 403  
the risk is 2614.45623905 : iteration 404  
the risk is 2612.50794193 : iteration 405  
the risk is 2610.22632922 : iteration 406  
the risk is 2607.9925593 : iteration 407  
the risk is 2606.16895529 : iteration 408  
the risk is 2608.70997355 : iteration 409  
the risk is 2606.44237791 : iteration 410  
the risk is 2605.77005869 : iteration 411  
the risk is 2603.44859058 : iteration 412  
the risk is 2602.42756451 : iteration 413  
the risk is 2600.64606372 : iteration 414  
the risk is 2599.79032515 : iteration 415  
the risk is 2597.61988736 : iteration 416  
the risk is 2595.88983673 : iteration 417  
the risk is 2594.15815986 : iteration 418  
the risk is 2592.31132909 : iteration 419  
the risk is 2595.10791936 : iteration 420  
the risk is 2597.52656794 : iteration 421  
the risk is 2595.77969512 : iteration 422  
the risk is 2594.07588348 : iteration 423  
the risk is 2592.08778778 : iteration 424  
the risk is 2588.16301982 : iteration 425  
the risk is 2591.36994035 : iteration 426  
the risk is 2589.60604753 : iteration 427  
the risk is 2587.83871527 : iteration 428  
the risk is 2586.17789019 : iteration 429  
the risk is 2589.35536645 : iteration 430  
the risk is 2587.4792915 : iteration 431  
the risk is 2585.47504485 : iteration 432  
the risk is 2583.83909627 : iteration 433  
the risk is 2581.99837731 : iteration 434  
the risk is 2581.23765394 : iteration 435  
the risk is 2579.75755471 : iteration 436  
the risk is 2578.2512988 : iteration 437  
the risk is 2575.70902872 : iteration 438  
the risk is 2573.6767748 : iteration 439

the risk is 2577.51024853 : iteration 440  
the risk is 2575.06063311 : iteration 441  
the risk is 2573.73920465 : iteration 442  
the risk is 2572.15948736 : iteration 443  
the risk is 2570.65761596 : iteration 444  
the risk is 2570.28079763 : iteration 445  
the risk is 2569.34896145 : iteration 446  
the risk is 2572.31726748 : iteration 447  
the risk is 2570.79293459 : iteration 448  
the risk is 2569.3085464 : iteration 449  
the risk is 2567.54673036 : iteration 450  
the risk is 2566.04857392 : iteration 451  
the risk is 2564.62537778 : iteration 452  
the risk is 2565.15801226 : iteration 453  
the risk is 2563.64261837 : iteration 454  
the risk is 2564.42853454 : iteration 455  
the risk is 2562.82135321 : iteration 456  
the risk is 2564.48482836 : iteration 457  
the risk is 2562.88054844 : iteration 458  
the risk is 2561.46304932 : iteration 459  
the risk is 2559.9947054 : iteration 460  
the risk is 2558.62822051 : iteration 461  
the risk is 2557.5081519 : iteration 462  
the risk is 2556.17825698 : iteration 463  
the risk is 2554.54316616 : iteration 464  
the risk is 2552.92004783 : iteration 465  
the risk is 2551.69063644 : iteration 466  
the risk is 2550.42583128 : iteration 467  
the risk is 2549.25347337 : iteration 468  
the risk is 2547.07658796 : iteration 469  
the risk is 2545.67460559 : iteration 470  
the risk is 2547.38952011 : iteration 471  
the risk is 2549.94855192 : iteration 472  
the risk is 2548.69603389 : iteration 473  
the risk is 2547.22608875 : iteration 474  
the risk is 2547.22435049 : iteration 475  
the risk is 2549.80185504 : iteration 476  
the risk is 2548.44153433 : iteration 477  
the risk is 2546.36874918 : iteration 478  
the risk is 2544.95564592 : iteration 479  
the risk is 2543.72761698 : iteration 480  
the risk is 2545.51307144 : iteration 481  
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the risk is 2208.38634599 : iteration 2990
the risk is 2208.41171998 : iteration 2991
the risk is 2208.17888505 : iteration 2992
the risk is 2207.96174752 : iteration 2993
the risk is 2207.75378217 : iteration 2994
the risk is 2207.50733708 : iteration 2995
the risk is 2207.31335389 : iteration 2996
the risk is 2207.14605318 : iteration 2997
the risk is 2206.99784651 : iteration 2998
the risk is 2206.99700984 : iteration 2999
the risk is 2206.8646236 : iteration 3000

```

```
In [380]: np.amin(training_risk1)
```

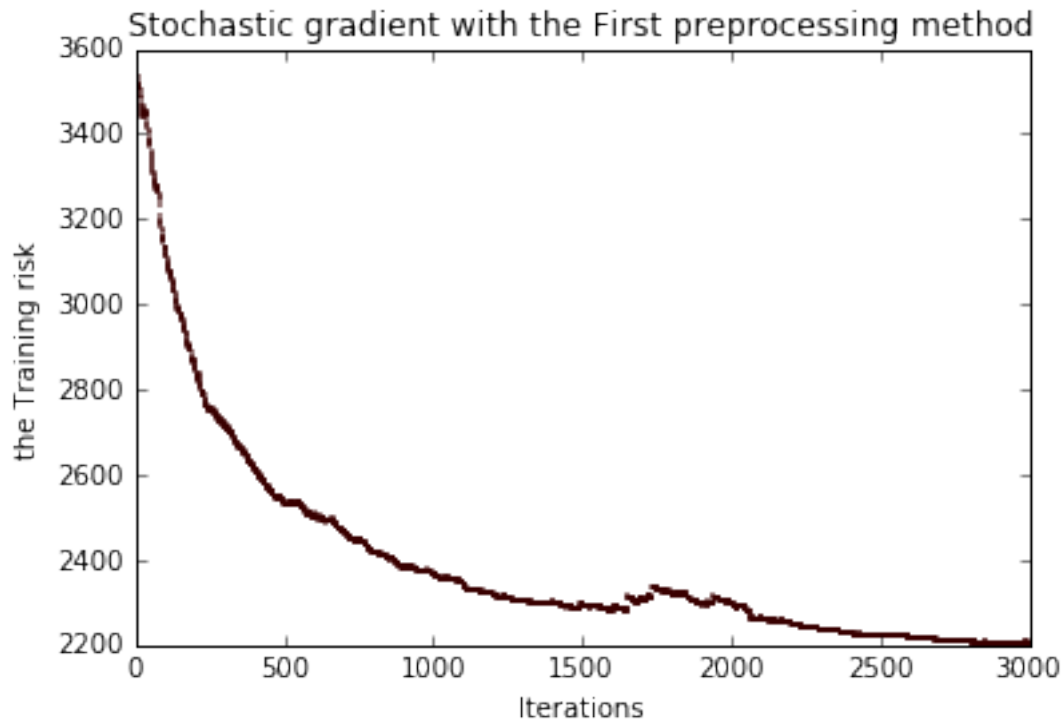
```
Out[380]: 2201.0702252575302
```

The training risk decreases down to 2206.8646236 after 3000 iterations and the smallest risk we obtained is 2201.0702252575302. We plot the training risk over the number of iterations.

```

In [379]: xpos = np.arange(len(training_risk1))+ 1
          plt.plot(xpos, training_risk1, 'ro', ms =1)
          plt.xlabel('Iterations')
          plt.ylabel('the Training risk')
          plt.title('Stochastic gradient with the First preprocessing method')
          plt.show()

```



We run stochastic gradient descent on the second preprocessed data with learning rate  $6 * 10^{-3}$ .

```
In [374]: training_risk2 = logistic_with_stochastic_gradient(w_0,sp_xtrain2,sp_ytrain,6e-3,3000)
```

```
the risk is 3584.95721786 : iteration 1
the risk is 3212.15851585 : iteration 2
the risk is 3103.95591907 : iteration 3
the risk is 3100.14270579 : iteration 4
the risk is 3162.06581537 : iteration 5
the risk is 3254.15187477 : iteration 6
the risk is 3352.29449397 : iteration 7
the risk is 3062.88300343 : iteration 8
the risk is 3103.98918932 : iteration 9
the risk is 3166.53726792 : iteration 10
the risk is 3075.5836251 : iteration 11
the risk is 3040.81037176 : iteration 12
the risk is 3075.65130709 : iteration 13
the risk is 3152.06946332 : iteration 14
the risk is 3244.78102454 : iteration 15
the risk is 3335.65849333 : iteration 16
the risk is 3034.76868602 : iteration 17
the risk is 3063.65335317 : iteration 18
the risk is 3125.60909426 : iteration 19
the risk is 3203.31187791 : iteration 20
the risk is 3315.23172421 : iteration 21
the risk is 3420.23836054 : iteration 22
the risk is 3515.86146489 : iteration 23
the risk is 3607.81114933 : iteration 24
```

the risk is 3093.29386131 : iteration 25  
the risk is 3174.36631468 : iteration 26  
the risk is 3020.52437643 : iteration 27  
the risk is 3390.13337853 : iteration 28  
the risk is 3948.18398318 : iteration 29  
the risk is 3379.58391604 : iteration 30  
the risk is 3928.72907152 : iteration 31  
the risk is 3282.06116158 : iteration 32  
the risk is 3034.76216065 : iteration 33  
the risk is 2982.41180243 : iteration 34  
the risk is 3251.77528131 : iteration 35  
the risk is 3843.27991991 : iteration 36  
the risk is 3263.72780083 : iteration 37  
the risk is 3879.89915097 : iteration 38  
the risk is 3321.63200612 : iteration 39  
the risk is 3038.94733768 : iteration 40  
the risk is 2969.43617784 : iteration 41  
the risk is 3332.43424865 : iteration 42  
the risk is 3841.52977074 : iteration 43  
the risk is 3214.83214835 : iteration 44  
the risk is 2990.22170963 : iteration 45  
the risk is 2952.64994192 : iteration 46  
the risk is 2993.14689638 : iteration 47  
the risk is 3056.11308739 : iteration 48  
the risk is 2992.94447827 : iteration 49  
the risk is 2948.16309856 : iteration 50  
the risk is 2975.05700799 : iteration 51  
the risk is 3043.5935866 : iteration 52  
the risk is 3136.3026184 : iteration 53  
the risk is 3211.7749878 : iteration 54  
the risk is 3302.80397128 : iteration 55  
the risk is 3392.21979064 : iteration 56  
the risk is 3482.73295573 : iteration 57  
the risk is 3560.94556628 : iteration 58  
the risk is 3647.71135697 : iteration 59  
the risk is 3723.00240362 : iteration 60  
the risk is 3076.80918784 : iteration 61  
the risk is 3164.94153328 : iteration 62  
the risk is 3255.64099544 : iteration 63  
the risk is 3354.87431916 : iteration 64  
the risk is 3450.97401652 : iteration 65  
the risk is 3540.58267032 : iteration 66  
the risk is 3672.29047936 : iteration 67  
the risk is 3754.96364037 : iteration 68  
the risk is 3825.85012212 : iteration 69  
the risk is 3918.34351439 : iteration 70  
the risk is 3996.06586465 : iteration 71  
the risk is 3223.83014691 : iteration 72  
the risk is 3309.84348058 : iteration 73  
the risk is 3381.14528993 : iteration 74  
the risk is 2958.07407756 : iteration 75  
the risk is 3009.9063214 : iteration 76  
the risk is 2987.23958309 : iteration 77  
the risk is 2931.49495018 : iteration 78

the risk is 2968.6685145 : iteration 79  
the risk is 3049.90973129 : iteration 80  
the risk is 3125.91449064 : iteration 81  
the risk is 3220.23547242 : iteration 82  
the risk is 2932.38485528 : iteration 83  
the risk is 2988.78155251 : iteration 84  
the risk is 2912.2900133 : iteration 85  
the risk is 2887.42463868 : iteration 86  
the risk is 3010.19937097 : iteration 87  
the risk is 2897.48465372 : iteration 88  
the risk is 2886.36616031 : iteration 89  
the risk is 2939.99980851 : iteration 90  
the risk is 2863.21756696 : iteration 91  
the risk is 2899.61378647 : iteration 92  
the risk is 2940.80837421 : iteration 93  
the risk is 2859.83827462 : iteration 94  
the risk is 2870.79749618 : iteration 95  
the risk is 2928.40041154 : iteration 96  
the risk is 2869.06127978 : iteration 97  
the risk is 2846.45490898 : iteration 98  
the risk is 2935.00738716 : iteration 99  
the risk is 3018.9266005 : iteration 100  
the risk is 3144.44093505 : iteration 101  
the risk is 3242.22777851 : iteration 102  
the risk is 3322.39576955 : iteration 103  
the risk is 2874.36130259 : iteration 104  
the risk is 2931.73904391 : iteration 105  
the risk is 2982.23347765 : iteration 106  
the risk is 3053.92492454 : iteration 107  
the risk is 3121.68304191 : iteration 108  
the risk is 3210.10307306 : iteration 109  
the risk is 3308.24578132 : iteration 110  
the risk is 3396.67543934 : iteration 111  
the risk is 2884.69986785 : iteration 112  
the risk is 2906.83040251 : iteration 113  
the risk is 3182.88781528 : iteration 114  
the risk is 3583.81574712 : iteration 115  
the risk is 3041.97733824 : iteration 116  
the risk is 2839.16533454 : iteration 117  
the risk is 3112.47849748 : iteration 118  
the risk is 3702.59945418 : iteration 119  
the risk is 4122.31527242 : iteration 120  
the risk is 3343.51226761 : iteration 121  
the risk is 2961.00187323 : iteration 122  
the risk is 2803.13795669 : iteration 123  
the risk is 2812.97929884 : iteration 124  
the risk is 2870.64643592 : iteration 125  
the risk is 2778.75150135 : iteration 126  
the risk is 3037.88250249 : iteration 127  
the risk is 2848.76170229 : iteration 128  
the risk is 2775.82006026 : iteration 129  
the risk is 2784.49848388 : iteration 130  
the risk is 2819.86848984 : iteration 131  
the risk is 2944.64432331 : iteration 132

the risk is 3032.04787775 : iteration 133  
the risk is 3093.76652644 : iteration 134  
the risk is 3176.56698367 : iteration 135  
the risk is 3259.27287846 : iteration 136  
the risk is 3341.92466019 : iteration 137  
the risk is 3374.05806712 : iteration 138  
the risk is 3436.09087515 : iteration 139  
the risk is 3559.56006764 : iteration 140  
the risk is 3632.41139301 : iteration 141  
the risk is 2948.92312824 : iteration 142  
the risk is 2743.13760722 : iteration 143  
the risk is 2857.02262251 : iteration 144  
the risk is 3151.17534903 : iteration 145  
the risk is 2806.43497776 : iteration 146  
the risk is 2725.10679811 : iteration 147  
the risk is 2956.26638184 : iteration 148  
the risk is 2757.06777208 : iteration 149  
the risk is 2709.93273135 : iteration 150  
the risk is 2849.48138439 : iteration 151  
the risk is 2718.92824831 : iteration 152  
the risk is 3082.79108037 : iteration 153  
the risk is 2942.28657652 : iteration 154  
the risk is 3144.89115401 : iteration 155  
the risk is 2841.39128023 : iteration 156  
the risk is 2717.32880811 : iteration 157  
the risk is 3119.05210081 : iteration 158  
the risk is 2797.69482846 : iteration 159  
the risk is 2712.1224951 : iteration 160  
the risk is 2812.80776814 : iteration 161  
the risk is 2688.53173359 : iteration 162  
the risk is 2665.20738791 : iteration 163  
the risk is 2733.67803671 : iteration 164  
the risk is 2816.14679999 : iteration 165  
the risk is 2893.42390071 : iteration 166  
the risk is 2673.61670212 : iteration 167  
the risk is 2795.05928356 : iteration 168  
the risk is 2669.02009084 : iteration 169  
the risk is 2673.43117241 : iteration 170  
the risk is 2732.92418584 : iteration 171  
the risk is 2805.08017839 : iteration 172  
the risk is 2882.10076516 : iteration 173  
the risk is 2966.85577507 : iteration 174  
the risk is 3099.25252038 : iteration 175  
the risk is 3133.52094053 : iteration 176  
the risk is 3210.30458286 : iteration 177  
the risk is 3282.88660101 : iteration 178  
the risk is 2736.78065114 : iteration 179  
the risk is 2783.61300154 : iteration 180  
the risk is 2690.8266595 : iteration 181  
the risk is 3076.99060503 : iteration 182  
the risk is 2788.85118443 : iteration 183  
the risk is 3092.2797061 : iteration 184  
the risk is 2751.6496491 : iteration 185  
the risk is 3194.37665225 : iteration 186

the risk is 2808.12463266 : iteration 187  
the risk is 2966.68265726 : iteration 188  
the risk is 2719.93361176 : iteration 189  
the risk is 2677.80048559 : iteration 190  
the risk is 2832.92530527 : iteration 191  
the risk is 2680.30415162 : iteration 192  
the risk is 2668.4635612 : iteration 193  
the risk is 2695.41470458 : iteration 194  
the risk is 2768.07447034 : iteration 195  
the risk is 2670.21589282 : iteration 196  
the risk is 2659.3414274 : iteration 197  
the risk is 2704.45274415 : iteration 198  
the risk is 2767.49015207 : iteration 199  
the risk is 2834.52979721 : iteration 200  
the risk is 2914.5805002 : iteration 201  
the risk is 2656.84751867 : iteration 202  
the risk is 2695.63828139 : iteration 203  
the risk is 2631.69601782 : iteration 204  
the risk is 2639.65629376 : iteration 205  
the risk is 2696.46009368 : iteration 206  
the risk is 2718.38499374 : iteration 207  
the risk is 2778.27461117 : iteration 208  
the risk is 2881.18683763 : iteration 209  
the risk is 2972.1779325 : iteration 210  
the risk is 2680.90105273 : iteration 211  
the risk is 2640.2308615 : iteration 212  
the risk is 3036.20408326 : iteration 213  
the risk is 3626.24198134 : iteration 214  
the risk is 2990.92430953 : iteration 215  
the risk is 2742.32450818 : iteration 216  
the risk is 2960.40225784 : iteration 217  
the risk is 2807.5175029 : iteration 218  
the risk is 3170.29528565 : iteration 219  
the risk is 2818.41951222 : iteration 220  
the risk is 2618.68575433 : iteration 221  
the risk is 2587.53423257 : iteration 222  
the risk is 2596.63300805 : iteration 223  
the risk is 2602.04986075 : iteration 224  
the risk is 2579.91223477 : iteration 225  
the risk is 2597.80300838 : iteration 226  
the risk is 2659.49947411 : iteration 227  
the risk is 2791.42879117 : iteration 228  
the risk is 2589.52439089 : iteration 229  
the risk is 2637.39399589 : iteration 230  
the risk is 2693.96607731 : iteration 231  
the risk is 2752.8886646 : iteration 232  
the risk is 2579.9289074 : iteration 233  
the risk is 2638.29931686 : iteration 234  
the risk is 2784.37406189 : iteration 235  
the risk is 2837.98670815 : iteration 236  
the risk is 2864.02845239 : iteration 237  
the risk is 2955.91035996 : iteration 238  
the risk is 2605.2812478 : iteration 239  
the risk is 2659.56382 : iteration 240

the risk is 2727.07066216 : iteration 241  
the risk is 2768.38349284 : iteration 242  
the risk is 2843.6747435 : iteration 243  
the risk is 2578.42323603 : iteration 244  
the risk is 2602.96085801 : iteration 245  
the risk is 2593.73690854 : iteration 246  
the risk is 2966.81131713 : iteration 247  
the risk is 2612.17486796 : iteration 248  
the risk is 3036.79899079 : iteration 249  
the risk is 2684.21867725 : iteration 250  
the risk is 2600.64191969 : iteration 251  
the risk is 2579.3820087 : iteration 252  
the risk is 2712.9702507 : iteration 253  
the risk is 2591.05801108 : iteration 254  
the risk is 2785.89719741 : iteration 255  
the risk is 2646.8786465 : iteration 256  
the risk is 2854.12877781 : iteration 257  
the risk is 3355.42314496 : iteration 258  
the risk is 3750.57433826 : iteration 259  
the risk is 4347.12303056 : iteration 260  
the risk is 4918.27071942 : iteration 261  
the risk is 3717.77912997 : iteration 262  
the risk is 4329.11067073 : iteration 263  
the risk is 3215.88340456 : iteration 264  
the risk is 2776.87271387 : iteration 265  
the risk is 2564.88083258 : iteration 266  
the risk is 2866.12100081 : iteration 267  
the risk is 2617.52821331 : iteration 268  
the risk is 2577.05033918 : iteration 269  
the risk is 2668.7273102 : iteration 270  
the risk is 2561.35991048 : iteration 271  
the risk is 2601.41914149 : iteration 272  
the risk is 2653.74542863 : iteration 273  
the risk is 2725.30153867 : iteration 274  
the risk is 2562.78994912 : iteration 275  
the risk is 2590.40131917 : iteration 276  
the risk is 2670.59691145 : iteration 277  
the risk is 2576.61943142 : iteration 278  
the risk is 2556.22749134 : iteration 279  
the risk is 2580.16492411 : iteration 280  
the risk is 2602.35706733 : iteration 281  
the risk is 2552.09740825 : iteration 282  
the risk is 2684.01301994 : iteration 283  
the risk is 2984.94753768 : iteration 284  
the risk is 2643.28219447 : iteration 285  
the risk is 2933.48120973 : iteration 286  
the risk is 3416.08641511 : iteration 287  
the risk is 3067.44456167 : iteration 288  
the risk is 2702.85808435 : iteration 289  
the risk is 3112.80908807 : iteration 290  
the risk is 2733.08128941 : iteration 291  
the risk is 2620.08678939 : iteration 292  
the risk is 3087.01036689 : iteration 293  
the risk is 2881.00369524 : iteration 294

the risk is 2596.22922665 : iteration 295  
the risk is 2530.64658769 : iteration 296  
the risk is 2830.31765874 : iteration 297  
the risk is 2544.23585284 : iteration 298  
the risk is 2527.7687677 : iteration 299  
the risk is 2556.51199181 : iteration 300  
the risk is 2546.5636725 : iteration 301  
the risk is 2526.94988712 : iteration 302  
the risk is 2521.58362038 : iteration 303  
the risk is 2566.67628249 : iteration 304  
the risk is 2641.80257296 : iteration 305  
the risk is 2556.63359754 : iteration 306  
the risk is 2951.09852483 : iteration 307  
the risk is 2658.61607784 : iteration 308  
the risk is 3159.89320678 : iteration 309  
the risk is 2996.31277638 : iteration 310  
the risk is 2652.38228097 : iteration 311  
the risk is 2758.10430512 : iteration 312  
the risk is 2545.67384794 : iteration 313  
the risk is 2508.92440473 : iteration 314  
the risk is 2533.24751131 : iteration 315  
the risk is 2602.45548269 : iteration 316  
the risk is 2555.84003434 : iteration 317  
the risk is 2735.60728671 : iteration 318  
the risk is 2573.10205273 : iteration 319  
the risk is 2503.80514891 : iteration 320  
the risk is 2725.47181137 : iteration 321  
the risk is 2630.1274769 : iteration 322  
the risk is 2570.23436982 : iteration 323  
the risk is 2504.05183405 : iteration 324  
the risk is 2602.35901381 : iteration 325  
the risk is 2728.92048309 : iteration 326  
the risk is 2554.13993574 : iteration 327  
the risk is 2675.29600393 : iteration 328  
the risk is 2506.44510003 : iteration 329  
the risk is 2485.80138301 : iteration 330  
the risk is 2511.75061933 : iteration 331  
the risk is 2577.77239158 : iteration 332  
the risk is 2487.40931614 : iteration 333  
the risk is 2568.9918404 : iteration 334  
the risk is 2501.76051584 : iteration 335  
the risk is 2476.44654865 : iteration 336  
the risk is 2496.56747102 : iteration 337  
the risk is 2526.44262041 : iteration 338  
the risk is 2471.41605322 : iteration 339  
the risk is 2489.5301044 : iteration 340  
the risk is 2532.12202707 : iteration 341  
the risk is 2594.22504513 : iteration 342  
the risk is 2655.59720043 : iteration 343  
the risk is 2478.22656342 : iteration 344  
the risk is 2471.34637638 : iteration 345  
the risk is 2497.00802036 : iteration 346  
the risk is 2527.58967585 : iteration 347  
the risk is 2617.88845011 : iteration 348



the risk is 2940.29842905 : iteration 349  
the risk is 3156.55567369 : iteration 350  
the risk is 3188.63697728 : iteration 351  
the risk is 3261.49810438 : iteration 352  
the risk is 3296.27743631 : iteration 353  
the risk is 2725.07004871 : iteration 354  
the risk is 2467.41145394 : iteration 355  
the risk is 2481.15915141 : iteration 356  
the risk is 2520.9200326 : iteration 357  
the risk is 2620.56642978 : iteration 358  
the risk is 2476.77849012 : iteration 359  
the risk is 2637.07847044 : iteration 360  
the risk is 3190.54438483 : iteration 361  
the risk is 2669.86967341 : iteration 362  
the risk is 2894.08398515 : iteration 363  
the risk is 2533.09677955 : iteration 364  
the risk is 2889.62718717 : iteration 365  
the risk is 2545.58444894 : iteration 366  
the risk is 3051.20050629 : iteration 367  
the risk is 2723.36960991 : iteration 368  
the risk is 3271.55064509 : iteration 369  
the risk is 3024.03994809 : iteration 370  
the risk is 2875.81740279 : iteration 371  
the risk is 2549.99478943 : iteration 372  
the risk is 2466.19462831 : iteration 373  
the risk is 2594.12508837 : iteration 374  
the risk is 2640.20439167 : iteration 375  
the risk is 2712.52472784 : iteration 376  
the risk is 2796.98188833 : iteration 377  
the risk is 2841.76113918 : iteration 378  
the risk is 2892.29602078 : iteration 379  
the risk is 2979.5543598 : iteration 380  
the risk is 3065.88010511 : iteration 381  
the risk is 3088.06466932 : iteration 382  
the risk is 3106.24546075 : iteration 383  
the risk is 3156.30050436 : iteration 384  
the risk is 3226.85714729 : iteration 385  
the risk is 2592.77715504 : iteration 386  
the risk is 2466.56670595 : iteration 387  
the risk is 2720.066267 : iteration 388  
the risk is 2523.70152004 : iteration 389  
the risk is 2466.22917959 : iteration 390  
the risk is 2471.62778507 : iteration 391  
the risk is 2505.06243734 : iteration 392  
the risk is 2458.64642299 : iteration 393  
the risk is 2481.21833008 : iteration 394  
the risk is 2517.47901403 : iteration 395  
the risk is 2595.06229937 : iteration 396  
the risk is 2460.68276759 : iteration 397  
the risk is 2471.36885243 : iteration 398  
the risk is 2507.6168996 : iteration 399  
the risk is 2566.60122369 : iteration 400  
the risk is 2456.04299827 : iteration 401  
the risk is 2478.85223879 : iteration 402

the risk is 2543.90013995 : iteration 403  
the risk is 2460.33754488 : iteration 404  
the risk is 2451.38172125 : iteration 405  
the risk is 2464.28591197 : iteration 406  
the risk is 2477.54542804 : iteration 407  
the risk is 2544.96851335 : iteration 408  
the risk is 2450.38854819 : iteration 409  
the risk is 2447.06100405 : iteration 410  
the risk is 2541.95485343 : iteration 411  
the risk is 2555.4134446 : iteration 412  
the risk is 2458.80956086 : iteration 413  
the risk is 2500.58508371 : iteration 414  
the risk is 2622.87686112 : iteration 415  
the risk is 2670.75806684 : iteration 416  
the risk is 2757.66907836 : iteration 417  
the risk is 2842.69168531 : iteration 418  
the risk is 2909.25722061 : iteration 419  
the risk is 2497.15947506 : iteration 420  
the risk is 2447.24852658 : iteration 421  
the risk is 2435.23269789 : iteration 422  
the risk is 2482.04843214 : iteration 423  
the risk is 2514.66829824 : iteration 424  
the risk is 2675.29382904 : iteration 425  
the risk is 2430.85742304 : iteration 426  
the risk is 2433.85672519 : iteration 427  
the risk is 2449.61613283 : iteration 428  
the risk is 2490.76540927 : iteration 429  
the risk is 2497.72227038 : iteration 430  
the risk is 2439.97618724 : iteration 431  
the risk is 2431.69131149 : iteration 432  
the risk is 2462.26566721 : iteration 433  
the risk is 2494.9032177 : iteration 434  
the risk is 2423.23041813 : iteration 435  
the risk is 2453.18195279 : iteration 436  
the risk is 2519.46740436 : iteration 437  
the risk is 2417.91190179 : iteration 438  
the risk is 2462.25668748 : iteration 439  
the risk is 2495.5349142 : iteration 440  
the risk is 2443.53280591 : iteration 441  
the risk is 2539.94260524 : iteration 442  
the risk is 2424.86551752 : iteration 443  
the risk is 2418.73920296 : iteration 444  
the risk is 2445.49361286 : iteration 445  
the risk is 2509.65719833 : iteration 446  
the risk is 2973.25069292 : iteration 447  
the risk is 2551.72189088 : iteration 448  
the risk is 2418.33619058 : iteration 449  
the risk is 2405.94024757 : iteration 450  
the risk is 2418.14617696 : iteration 451  
the risk is 2454.29779392 : iteration 452  
the risk is 2448.37034834 : iteration 453  
the risk is 2406.79488782 : iteration 454  
the risk is 2431.30843728 : iteration 455  
the risk is 2478.53305985 : iteration 456

the risk is 2399.74748675 : iteration 457  
the risk is 2407.8853966 : iteration 458  
the risk is 2449.93425749 : iteration 459  
the risk is 2494.4891439 : iteration 460  
the risk is 2574.5064741 : iteration 461  
the risk is 2694.61490606 : iteration 462  
the risk is 2752.42068487 : iteration 463  
the risk is 2830.47672142 : iteration 464  
the risk is 2866.06600814 : iteration 465  
the risk is 2932.67870834 : iteration 466  
the risk is 2990.25369523 : iteration 467  
the risk is 3052.92627542 : iteration 468  
the risk is 2676.56583822 : iteration 469  
the risk is 2426.96025551 : iteration 470  
the risk is 2409.04304491 : iteration 471  
the risk is 2763.75346488 : iteration 472  
the risk is 2466.12830213 : iteration 473  
the risk is 2410.15269174 : iteration 474  
the risk is 2473.86566214 : iteration 475  
the risk is 2919.8004211 : iteration 476  
the risk is 2549.12434679 : iteration 477  
the risk is 2440.08719262 : iteration 478  
the risk is 2383.74341708 : iteration 479  
the risk is 2383.64456539 : iteration 480  
the risk is 2443.11359155 : iteration 481  
the risk is 2557.05841652 : iteration 482  
the risk is 2459.49840402 : iteration 483  
the risk is 2417.17104469 : iteration 484  
the risk is 2927.6813599 : iteration 485  
the risk is 2419.14886221 : iteration 486  
the risk is 2808.33328908 : iteration 487  
the risk is 3245.19140858 : iteration 488  
the risk is 2738.38651579 : iteration 489  
the risk is 2456.74061947 : iteration 490  
the risk is 2389.14602174 : iteration 491  
the risk is 2380.72600122 : iteration 492  
the risk is 2387.0705493 : iteration 493  
the risk is 2404.82389633 : iteration 494  
the risk is 2443.86620417 : iteration 495  
the risk is 2483.07650523 : iteration 496  
the risk is 2591.59474287 : iteration 497  
the risk is 2387.33267946 : iteration 498  
the risk is 2442.27995818 : iteration 499  
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the risk is 2098.27678408 : iteration 2512  
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the risk is 2146.30833526 : iteration 2516  
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the risk is 2461.24894056 : iteration 2520  
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the risk is 2143.05818464 : iteration 2526  
the risk is 2170.9770188 : iteration 2527  
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the risk is 2216.87312192 : iteration 2532  
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the risk is 2245.67755231 : iteration 2535  
the risk is 2245.48437294 : iteration 2536  
the risk is 2154.25543305 : iteration 2537  
the risk is 2151.70646428 : iteration 2538  
the risk is 2385.73848393 : iteration 2539  
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the risk is 2161.35602886 : iteration 2542  
the risk is 2094.35063414 : iteration 2543  
the risk is 2095.80384146 : iteration 2544  
the risk is 2242.81652324 : iteration 2545  
the risk is 2187.16091838 : iteration 2546  
the risk is 2109.53016846 : iteration 2547  
the risk is 2109.08811211 : iteration 2548  
the risk is 2184.41647767 : iteration 2549  
the risk is 2138.50508142 : iteration 2550  
the risk is 2231.85334188 : iteration 2551  
the risk is 2125.68842018 : iteration 2552  
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the risk is 2102.17915104 : iteration 2554  
the risk is 2212.14413569 : iteration 2555  
the risk is 2214.07939547 : iteration 2556  
the risk is 2216.07965358 : iteration 2557  
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the risk is 2105.89225843 : iteration 2560  
the risk is 2095.45639711 : iteration 2561  
the risk is 2101.26833054 : iteration 2562

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the risk is 2096.02235287 : iteration 2616

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the risk is 2228.08798076 : iteration 2636  
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the risk is 2143.48383245 : iteration 2638  
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the risk is 2168.36532147 : iteration 2640  
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the risk is 3007.22824966 : iteration 2646  
the risk is 2332.56381077 : iteration 2647  
the risk is 2414.32255297 : iteration 2648  
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the risk is 2254.29603148 : iteration 2778

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the risk is 2261.82040421 : iteration 2780  
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the risk is 2126.14106704 : iteration 2782  
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the risk is 2236.19693895 : iteration 2831  
the risk is 2254.26207012 : iteration 2832

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the risk is 2101.65086828 : iteration 2835  
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the risk is 2109.74669755 : iteration 2858  
the risk is 2121.96087547 : iteration 2859  
the risk is 2125.12559304 : iteration 2860  
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the risk is 2351.0363455 : iteration 2882  
the risk is 2125.50218437 : iteration 2883  
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the risk is 2080.46448079 : iteration 2885  
the risk is 2080.77265909 : iteration 2886

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the risk is 2137.41143527 : iteration 2892  
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the risk is 2810.67782296 : iteration 2912  
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the risk is 2501.95576833 : iteration 2914  
the risk is 2943.01710054 : iteration 2915  
the risk is 2282.37636966 : iteration 2916  
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the risk is 2181.54749023 : iteration 2919  
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the risk is 2230.64471475 : iteration 2921  
the risk is 2272.32179901 : iteration 2922  
the risk is 2153.89913253 : iteration 2923  
the risk is 2154.04799499 : iteration 2924  
the risk is 2118.61266815 : iteration 2925  
the risk is 2084.17631601 : iteration 2926  
the risk is 2091.65601253 : iteration 2927  
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the risk is 2100.62606349 : iteration 2931  
the risk is 2099.35789753 : iteration 2932  
the risk is 2081.52952289 : iteration 2933  
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the risk is 2118.09554134 : iteration 2939  
the risk is 2376.29834074 : iteration 2940



the risk is 2347.68201095 : iteration 2941  
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the risk is 2090.85043207 : iteration 2950  
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the risk is 2082.089557 : iteration 2958  
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the risk is 2766.16773157 : iteration 2976  
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the risk is 3236.96589315 : iteration 2978  
the risk is 2790.53513795 : iteration 2979  
the risk is 2423.78512128 : iteration 2980  
the risk is 2848.09224975 : iteration 2981  
the risk is 2890.8101637 : iteration 2982  
the risk is 2420.43688171 : iteration 2983  
the risk is 2157.15390231 : iteration 2984  
the risk is 2156.8884401 : iteration 2985  
the risk is 2272.38713299 : iteration 2986  
the risk is 2100.02047461 : iteration 2987  
the risk is 2083.41087191 : iteration 2988  
the risk is 2103.77406017 : iteration 2989  
the risk is 2216.72036072 : iteration 2990  
the risk is 2288.25613611 : iteration 2991  
the risk is 2330.71796366 : iteration 2992  
the risk is 2373.09255396 : iteration 2993  
the risk is 2461.42178915 : iteration 2994

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the risk is 2498.91498185 : iteration 2995
the risk is 2520.87270224 : iteration 2996
the risk is 2604.12963914 : iteration 2997
the risk is 2651.88789088 : iteration 2998
the risk is 2604.4552991 : iteration 2999
the risk is 2642.34550665 : iteration 3000

```

```
In [376]: np.amin(training_risk2)
```

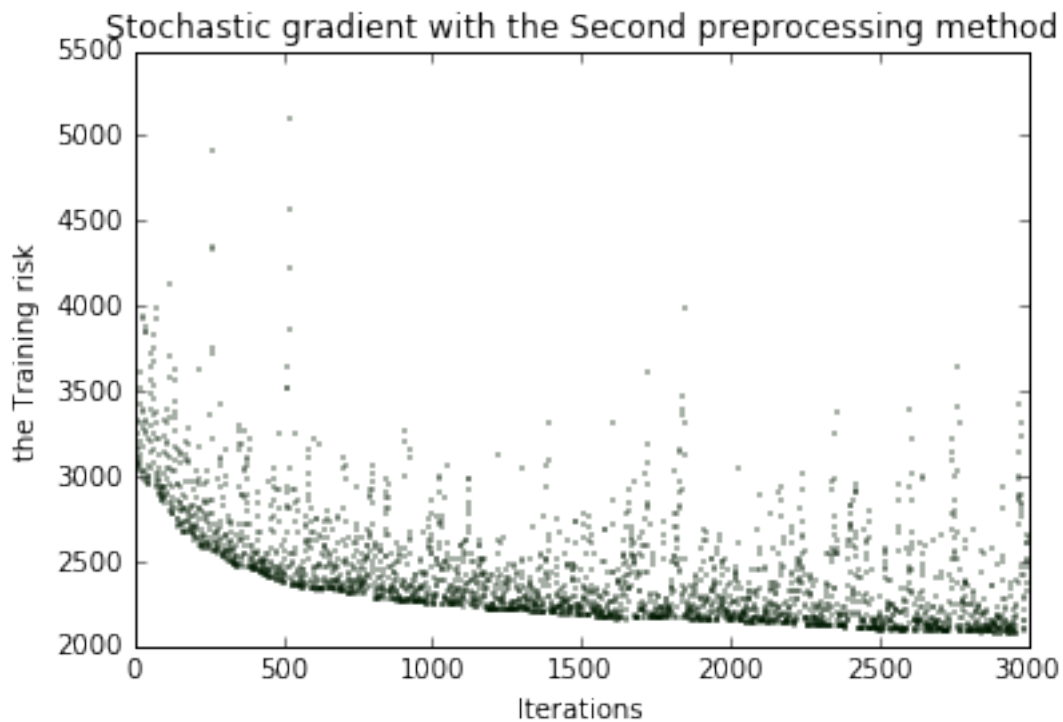
```
Out[376]: 2080.0943692828496
```

After 3000 iteration, the minimum of the training risk we obtained is 2080.0943692828496. We plot the training risk over the number of iterations.

```

In [378]: xpos = np.arange(len(training_risk2))+ 1
plt.plot(xpos, training_risk2, 'go', ms =0.7)
plt.xlabel('Iterations')
plt.ylabel('the Training risk')
plt.title('Stochastic gradient with the Second preprocessing method')
plt.show()

```



We run the stochastic gradient descent with learning rate 0.25 on the third processed data.

```
In [390]: training_risk3 = logistic_with_stochastic_gradient(w_0,sp_xtrain3,sp_ytrain,0.25,3000)
```

```

the risk is 3584.95721786 : iteration 1
the risk is 3394.71136248 : iteration 2
the risk is 3263.56439499 : iteration 3

```

the risk is 3129.83593449 : iteration 4  
the risk is 3089.03695845 : iteration 5  
the risk is 3100.90012712 : iteration 6  
the risk is 3111.33958571 : iteration 7  
the risk is 3044.64391972 : iteration 8  
the risk is 3015.83446442 : iteration 9  
the risk is 2991.23852658 : iteration 10  
the risk is 2965.75960176 : iteration 11  
the risk is 2938.28772864 : iteration 12  
the risk is 2930.71554253 : iteration 13  
the risk is 2930.45087266 : iteration 14  
the risk is 2945.32956975 : iteration 15  
the risk is 2956.45146553 : iteration 16  
the risk is 2934.0856023 : iteration 17  
the risk is 2939.24274221 : iteration 18  
the risk is 2940.29889591 : iteration 19  
the risk is 2945.61102809 : iteration 20  
the risk is 3011.94146395 : iteration 21  
the risk is 3039.28955428 : iteration 22  
the risk is 3071.4877794 : iteration 23  
the risk is 3105.98046566 : iteration 24  
the risk is 2867.82215835 : iteration 25  
the risk is 2887.54892084 : iteration 26  
the risk is 2796.8470111 : iteration 27  
the risk is 2798.20482076 : iteration 28  
the risk is 2836.56368794 : iteration 29  
the risk is 2798.1136557 : iteration 30  
the risk is 2872.50510325 : iteration 31  
the risk is 2819.15832223 : iteration 32  
the risk is 2777.35182766 : iteration 33  
the risk is 2749.82743796 : iteration 34  
the risk is 2788.70372262 : iteration 35  
the risk is 2850.83603475 : iteration 36  
the risk is 2794.81890707 : iteration 37  
the risk is 2928.29020682 : iteration 38  
the risk is 2847.62068198 : iteration 39  
the risk is 2805.10820012 : iteration 40  
the risk is 2782.30733333 : iteration 41  
the risk is 2902.32357784 : iteration 42  
the risk is 2955.06292354 : iteration 43  
the risk is 2871.06396221 : iteration 44  
the risk is 2812.21980952 : iteration 45  
the risk is 2767.68511273 : iteration 46  
the risk is 2727.48725644 : iteration 47  
the risk is 2714.39640684 : iteration 48  
the risk is 2752.09852114 : iteration 49  
the risk is 2724.45584791 : iteration 50  
the risk is 2706.20127567 : iteration 51  
the risk is 2692.16488937 : iteration 52  
the risk is 2692.2965897 : iteration 53  
the risk is 2689.89952325 : iteration 54  
the risk is 2697.61645435 : iteration 55  
the risk is 2710.13758531 : iteration 56  
the risk is 2733.84505425 : iteration 57

the risk is 2741.71045295 : iteration 58  
the risk is 2767.23892338 : iteration 59  
the risk is 2779.91882462 : iteration 60  
the risk is 2702.77093545 : iteration 61  
the risk is 2719.77169744 : iteration 62  
the risk is 2738.99480824 : iteration 63  
the risk is 2761.65408819 : iteration 64  
the risk is 2791.33576883 : iteration 65  
the risk is 2821.65417408 : iteration 66  
the risk is 2922.45702047 : iteration 67  
the risk is 2948.58305388 : iteration 68  
the risk is 2962.99213759 : iteration 69  
the risk is 3027.80308533 : iteration 70  
the risk is 3054.03642319 : iteration 71  
the risk is 2903.74567594 : iteration 72  
the risk is 2924.02720204 : iteration 73  
the risk is 2936.8833875 : iteration 74  
the risk is 2834.97976257 : iteration 75  
the risk is 2853.75504112 : iteration 76  
the risk is 2785.00338939 : iteration 77  
the risk is 2804.93728377 : iteration 78  
the risk is 2834.41862509 : iteration 79  
the risk is 2866.64862628 : iteration 80  
the risk is 2877.66514267 : iteration 81  
the risk is 2896.72779362 : iteration 82  
the risk is 2607.23788144 : iteration 83  
the risk is 2624.20679873 : iteration 84  
the risk is 2556.18525104 : iteration 85  
the risk is 2563.53565357 : iteration 86  
the risk is 2544.40843317 : iteration 87  
the risk is 2530.10403828 : iteration 88  
the risk is 2510.78808652 : iteration 89  
the risk is 2494.85187542 : iteration 90  
the risk is 2473.28674708 : iteration 91  
the risk is 2503.38388198 : iteration 92  
the risk is 2471.76492068 : iteration 93  
the risk is 2461.84159263 : iteration 94  
the risk is 2487.5240141 : iteration 95  
the risk is 2491.51494817 : iteration 96  
the risk is 2456.81859074 : iteration 97  
the risk is 2454.79786066 : iteration 98  
the risk is 2502.40848969 : iteration 99  
the risk is 2546.21968325 : iteration 100  
the risk is 2626.22219406 : iteration 101  
the risk is 2653.20786833 : iteration 102  
the risk is 2666.43244613 : iteration 103  
the risk is 2587.98972556 : iteration 104  
the risk is 2606.69190691 : iteration 105  
the risk is 2631.92262809 : iteration 106  
the risk is 2643.91814915 : iteration 107  
the risk is 2653.92825082 : iteration 108  
the risk is 2676.38644401 : iteration 109  
the risk is 2707.69302053 : iteration 110  
the risk is 2728.78932004 : iteration 111

the risk is 2631.68973465 : iteration 112  
the risk is 2553.69132978 : iteration 113  
the risk is 2468.24951687 : iteration 114  
the risk is 2437.37695196 : iteration 115  
the risk is 2430.54595728 : iteration 116  
the risk is 2429.47233964 : iteration 117  
the risk is 2412.99442105 : iteration 118  
the risk is 2451.55222569 : iteration 119  
the risk is 2480.22979378 : iteration 120  
the risk is 2450.84924104 : iteration 121  
the risk is 2421.57837858 : iteration 122  
the risk is 2405.13222186 : iteration 123  
the risk is 2413.18238383 : iteration 124  
the risk is 2416.18369272 : iteration 125  
the risk is 2393.73117176 : iteration 126  
the risk is 2444.68105666 : iteration 127  
the risk is 2420.0654897 : iteration 128  
the risk is 2407.22709575 : iteration 129  
the risk is 2385.69920434 : iteration 130  
the risk is 2377.80884054 : iteration 131  
the risk is 2404.90475632 : iteration 132  
the risk is 2407.10742484 : iteration 133  
the risk is 2413.27128713 : iteration 134  
the risk is 2422.8570378 : iteration 135  
the risk is 2434.39622163 : iteration 136  
the risk is 2447.82126646 : iteration 137  
the risk is 2450.61415892 : iteration 138  
the risk is 2458.05072367 : iteration 139  
the risk is 2538.00497421 : iteration 140  
the risk is 2556.03818357 : iteration 141  
the risk is 2462.98128234 : iteration 142  
the risk is 2390.13324827 : iteration 143  
the risk is 2357.69371226 : iteration 144  
the risk is 2325.63288912 : iteration 145  
the risk is 2322.59210648 : iteration 146  
the risk is 2320.4218061 : iteration 147  
the risk is 2315.56420133 : iteration 148  
the risk is 2319.45596469 : iteration 149  
the risk is 2318.20979206 : iteration 150  
the risk is 2316.01124829 : iteration 151  
the risk is 2308.8349589 : iteration 152  
the risk is 2333.39320802 : iteration 153  
the risk is 2329.68484789 : iteration 154  
the risk is 2347.96791393 : iteration 155  
the risk is 2333.16511355 : iteration 156  
the risk is 2324.06808545 : iteration 157  
the risk is 2371.20401769 : iteration 158  
the risk is 2342.6423122 : iteration 159  
the risk is 2334.52281119 : iteration 160  
the risk is 2352.46475346 : iteration 161  
the risk is 2334.42017989 : iteration 162  
the risk is 2311.5417534 : iteration 163  
the risk is 2300.26091949 : iteration 164  
the risk is 2303.97272761 : iteration 165

the risk is 2308.62110808 : iteration 166  
the risk is 2300.10106381 : iteration 167  
the risk is 2306.58205446 : iteration 168  
the risk is 2293.46978694 : iteration 169  
the risk is 2287.20675369 : iteration 170  
the risk is 2286.61753896 : iteration 171  
the risk is 2286.62941949 : iteration 172  
the risk is 2290.05774022 : iteration 173  
the risk is 2296.35864717 : iteration 174  
the risk is 2347.98241743 : iteration 175  
the risk is 2349.41193473 : iteration 176  
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the risk is 2292.92057037 : iteration 181  
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the risk is 2382.07793357 : iteration 186  
the risk is 2343.6233115 : iteration 187  
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the risk is 2277.24574475 : iteration 194  
the risk is 2276.87642552 : iteration 195  
the risk is 2274.43390145 : iteration 196  
the risk is 2267.0863447 : iteration 197  
the risk is 2260.57856905 : iteration 198  
the risk is 2260.33439983 : iteration 199  
the risk is 2259.18394138 : iteration 200  
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the risk is 2252.99616254 : iteration 202  
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the risk is 2248.13006805 : iteration 216  
the risk is 2270.25975904 : iteration 217  
the risk is 2268.30281055 : iteration 218  
the risk is 2331.79900851 : iteration 219

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the risk is 2218.34584313 : iteration 222  
the risk is 2214.52143301 : iteration 223  
the risk is 2219.66792921 : iteration 224  
the risk is 2206.79798996 : iteration 225  
the risk is 2204.20531475 : iteration 226  
the risk is 2198.23876318 : iteration 227  
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the risk is 2229.58346583 : iteration 229  
the risk is 2223.45019494 : iteration 230  
the risk is 2228.18193357 : iteration 231  
the risk is 2232.38413466 : iteration 232  
the risk is 2209.35957218 : iteration 233  
the risk is 2240.33865609 : iteration 234  
the risk is 2312.63195851 : iteration 235  
the risk is 2320.93688531 : iteration 236  
the risk is 2322.40959297 : iteration 237  
the risk is 2345.15324878 : iteration 238  
the risk is 2235.20611543 : iteration 239  
the risk is 2242.47311368 : iteration 240  
the risk is 2249.93892968 : iteration 241  
the risk is 2251.09362303 : iteration 242  
the risk is 2260.27123194 : iteration 243  
the risk is 2230.34691702 : iteration 244  
the risk is 2238.95091947 : iteration 245  
the risk is 2219.62532917 : iteration 246  
the risk is 2241.70373883 : iteration 247  
the risk is 2229.73021883 : iteration 248  
the risk is 2259.50271747 : iteration 249  
the risk is 2244.6508796 : iteration 250  
the risk is 2239.48084178 : iteration 251  
the risk is 2232.94302076 : iteration 252  
the risk is 2239.28187387 : iteration 253  
the risk is 2230.22211491 : iteration 254  
the risk is 2236.07975796 : iteration 255  
the risk is 2232.04252264 : iteration 256  
the risk is 2313.2623479 : iteration 257  
the risk is 2384.76303536 : iteration 258  
the risk is 2437.90320394 : iteration 259  
the risk is 2527.35020018 : iteration 260  
the risk is 2650.67020473 : iteration 261  
the risk is 2441.33439228 : iteration 262  
the risk is 2569.51921297 : iteration 263  
the risk is 2477.72050869 : iteration 264  
the risk is 2413.75262715 : iteration 265  
the risk is 2289.55024862 : iteration 266  
the risk is 2358.3064025 : iteration 267  
the risk is 2275.26079047 : iteration 268  
the risk is 2267.20921137 : iteration 269  
the risk is 2300.32949824 : iteration 270  
the risk is 2230.071631 : iteration 271  
the risk is 2220.31914436 : iteration 272  
the risk is 2217.08616252 : iteration 273

the risk is 2218.39045274 : iteration 274  
the risk is 2216.71081018 : iteration 275  
the risk is 2218.00370417 : iteration 276  
the risk is 2256.39110746 : iteration 277  
the risk is 2248.20233456 : iteration 278  
the risk is 2242.7582469 : iteration 279  
the risk is 2228.14285971 : iteration 280  
the risk is 2285.16719403 : iteration 281  
the risk is 2253.85965731 : iteration 282  
the risk is 2280.17128245 : iteration 283  
the risk is 2309.92675713 : iteration 284  
the risk is 2272.67510695 : iteration 285  
the risk is 2308.07735121 : iteration 286  
the risk is 2369.28096642 : iteration 287  
the risk is 2354.87489796 : iteration 288  
the risk is 2309.32516381 : iteration 289  
the risk is 2407.76135983 : iteration 290  
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the risk is 2334.46008944 : iteration 292  
the risk is 2420.54514048 : iteration 293  
the risk is 2383.55683407 : iteration 294  
the risk is 2327.52568175 : iteration 295  
the risk is 2274.84235723 : iteration 296  
the risk is 2345.36100705 : iteration 297  
the risk is 2241.77733893 : iteration 298  
the risk is 2225.93067176 : iteration 299  
the risk is 2206.9298323 : iteration 300  
the risk is 2219.17527385 : iteration 301  
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the risk is 2192.47653009 : iteration 304  
the risk is 2186.29353026 : iteration 305  
the risk is 2239.37047887 : iteration 306  
the risk is 2297.13231984 : iteration 307  
the risk is 2263.16216032 : iteration 308  
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the risk is 2203.67152542 : iteration 315  
the risk is 2184.36824026 : iteration 316  
the risk is 2211.11103631 : iteration 317  
the risk is 2248.08288834 : iteration 318  
the risk is 2229.38886508 : iteration 319  
the risk is 2205.75984987 : iteration 320  
the risk is 2281.49579374 : iteration 321  
the risk is 2270.94334522 : iteration 322  
the risk is 2260.04947261 : iteration 323  
the risk is 2232.97991903 : iteration 324  
the risk is 2259.56680939 : iteration 325  
the risk is 2293.89812089 : iteration 326  
the risk is 2260.26382957 : iteration 327



the risk is 2289.71426786 : iteration 328  
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the risk is 2215.10348015 : iteration 330  
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the risk is 2179.97496929 : iteration 332  
the risk is 2186.64085427 : iteration 333  
the risk is 2231.15362437 : iteration 334  
the risk is 2223.92075083 : iteration 335  
the risk is 2202.80537175 : iteration 336  
the risk is 2188.74523032 : iteration 337  
the risk is 2182.76353986 : iteration 338  
the risk is 2194.70572487 : iteration 339  
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the risk is 2171.67073646 : iteration 341  
the risk is 2166.92099856 : iteration 342  
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the risk is 2163.70428443 : iteration 347  
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the risk is 2175.10849848 : iteration 356  
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the risk is 2262.57861052 : iteration 369  
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the risk is 2251.2634938 : iteration 371  
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the risk is 2175.3099033 : iteration 375  
the risk is 2173.71968845 : iteration 376  
the risk is 2181.2001556 : iteration 377  
the risk is 2181.63073008 : iteration 378  
the risk is 2183.77540526 : iteration 379  
the risk is 2195.68994552 : iteration 380  
the risk is 2213.68381623 : iteration 381

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the risk is 2225.31544135 : iteration 384  
the risk is 2236.82722462 : iteration 385  
the risk is 2189.31495257 : iteration 386  
the risk is 2168.50518635 : iteration 387  
the risk is 2181.85390905 : iteration 388  
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the risk is 2162.62922901 : iteration 390  
the risk is 2158.07542399 : iteration 391  
the risk is 2158.42831103 : iteration 392  
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the risk is 2156.17821714 : iteration 397  
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the risk is 2133.18198724 : iteration 446  
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the risk is 2134.16991812 : iteration 450  
the risk is 2127.02683023 : iteration 451  
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the risk is 2132.22806979 : iteration 453  
the risk is 2127.21385459 : iteration 454  
the risk is 2123.84749985 : iteration 455  
the risk is 2128.95414199 : iteration 456  
the risk is 2112.78756838 : iteration 457  
the risk is 2116.06604061 : iteration 458  
the risk is 2126.03664229 : iteration 459  
the risk is 2129.51093502 : iteration 460  
the risk is 2142.98283612 : iteration 461  
the risk is 2174.39473894 : iteration 462  
the risk is 2182.40556512 : iteration 463  
the risk is 2196.68084767 : iteration 464  
the risk is 2199.44477221 : iteration 465  
the risk is 2213.72550124 : iteration 466  
the risk is 2231.12419969 : iteration 467  
the risk is 2245.94148673 : iteration 468  
the risk is 2181.15957163 : iteration 469  
the risk is 2170.60016867 : iteration 470  
the risk is 2146.92699264 : iteration 471  
the risk is 2117.38921269 : iteration 472  
the risk is 2124.38398524 : iteration 473  
the risk is 2125.89347805 : iteration 474  
the risk is 2119.61637783 : iteration 475  
the risk is 2119.27362955 : iteration 476  
the risk is 2115.62374576 : iteration 477  
the risk is 2115.26204723 : iteration 478  
the risk is 2113.97846616 : iteration 479  
the risk is 2115.53808171 : iteration 480  
the risk is 2117.09055556 : iteration 481  
the risk is 2194.35515302 : iteration 482  
the risk is 2151.58002373 : iteration 483  
the risk is 2148.44204845 : iteration 484  
the risk is 2225.91980659 : iteration 485  
the risk is 2139.36319458 : iteration 486  
the risk is 2206.5699937 : iteration 487  
the risk is 2278.4941091 : iteration 488  
the risk is 2249.61486678 : iteration 489

the risk is 2214.98907491 : iteration 490  
the risk is 2197.05957615 : iteration 491  
the risk is 2182.05754019 : iteration 492  
the risk is 2176.62547767 : iteration 493  
the risk is 2171.10656098 : iteration 494  
the risk is 2158.81503843 : iteration 495  
the risk is 2149.10344848 : iteration 496  
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the risk is 2102.74627477 : iteration 498  
the risk is 2103.41156766 : iteration 499  
the risk is 2107.23564229 : iteration 500  
the risk is 2108.76125608 : iteration 501  
the risk is 2125.29170542 : iteration 502  
the risk is 2115.00769133 : iteration 503  
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the risk is 2108.43479612 : iteration 506  
the risk is 2108.45508264 : iteration 507  
the risk is 2107.24252858 : iteration 508  
the risk is 2125.01716074 : iteration 509  
the risk is 2123.77984 : iteration 510  
the risk is 2138.20117629 : iteration 511  
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the risk is 2134.9357562 : iteration 514  
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the risk is 1970.3130255 : iteration 2580  
the risk is 1970.39250349 : iteration 2581  
the risk is 1973.37104117 : iteration 2582  
the risk is 1973.39706437 : iteration 2583  
the risk is 1976.06118332 : iteration 2584  
the risk is 1979.45401663 : iteration 2585  
the risk is 1971.68115203 : iteration 2586  
the risk is 1971.61066042 : iteration 2587  
the risk is 1971.50514472 : iteration 2588  
the risk is 1974.10348067 : iteration 2589  
the risk is 1965.40345585 : iteration 2590  
the risk is 1970.45067757 : iteration 2591  
the risk is 1970.38822808 : iteration 2592  
the risk is 2031.55856857 : iteration 2593  
the risk is 2028.85348054 : iteration 2594  
the risk is 2026.49411669 : iteration 2595

the risk is 2081.60354328 : iteration 2596  
the risk is 2054.12216974 : iteration 2597  
the risk is 2206.79828202 : iteration 2598  
the risk is 2288.60069334 : iteration 2599  
the risk is 2202.03379045 : iteration 2600  
the risk is 2199.38069048 : iteration 2601  
the risk is 2199.03881415 : iteration 2602  
the risk is 2197.60461413 : iteration 2603  
the risk is 2129.34961058 : iteration 2604  
the risk is 2203.17156506 : iteration 2605  
the risk is 2334.18433179 : iteration 2606  
the risk is 2368.63299165 : iteration 2607  
the risk is 2292.6461486 : iteration 2608  
the risk is 2290.34941656 : iteration 2609  
the risk is 2289.69051551 : iteration 2610  
the risk is 2295.64716436 : iteration 2611  
the risk is 2206.64934665 : iteration 2612  
the risk is 2241.42080958 : iteration 2613  
the risk is 2219.12857547 : iteration 2614  
the risk is 2103.19168232 : iteration 2615  
the risk is 2102.50032837 : iteration 2616  
the risk is 2052.37686127 : iteration 2617  
the risk is 2063.75811259 : iteration 2618  
the risk is 2097.29064694 : iteration 2619  
the risk is 2129.09235624 : iteration 2620  
the risk is 2093.2449232 : iteration 2621  
the risk is 2092.38498944 : iteration 2622  
the risk is 2092.31269225 : iteration 2623  
the risk is 2079.03023581 : iteration 2624  
the risk is 2085.95069588 : iteration 2625  
the risk is 2041.37820537 : iteration 2626  
the risk is 1964.73483938 : iteration 2627  
the risk is 1964.42718396 : iteration 2628  
the risk is 1952.20301623 : iteration 2629  
the risk is 1972.68176841 : iteration 2630  
the risk is 1972.56862251 : iteration 2631  
the risk is 2012.05680889 : iteration 2632  
the risk is 2016.32930096 : iteration 2633  
the risk is 2017.57038153 : iteration 2634  
the risk is 2025.93170651 : iteration 2635  
the risk is 2023.7591009 : iteration 2636  
the risk is 2080.42907062 : iteration 2637  
the risk is 1971.58761284 : iteration 2638  
the risk is 1961.16966164 : iteration 2639  
the risk is 1952.08119879 : iteration 2640  
the risk is 1952.02948448 : iteration 2641  
the risk is 1953.03847341 : iteration 2642  
the risk is 1958.70529472 : iteration 2643  
the risk is 2002.74215047 : iteration 2644  
the risk is 2061.86425808 : iteration 2645  
the risk is 2073.47882589 : iteration 2646  
the risk is 2018.08503561 : iteration 2647  
the risk is 2036.23221522 : iteration 2648  
the risk is 2044.56794767 : iteration 2649

the risk is 2051.32066902 : iteration 2650  
the risk is 2063.98111139 : iteration 2651  
the risk is 1996.54296516 : iteration 2652  
the risk is 1985.91645238 : iteration 2653  
the risk is 1985.34616566 : iteration 2654  
the risk is 1982.04400141 : iteration 2655  
the risk is 1982.30120738 : iteration 2656  
the risk is 1985.6810944 : iteration 2657  
the risk is 1993.07106197 : iteration 2658  
the risk is 1997.56813847 : iteration 2659  
the risk is 1998.08401029 : iteration 2660  
the risk is 2003.59540986 : iteration 2661  
the risk is 1970.0342629 : iteration 2662  
the risk is 1969.32093454 : iteration 2663  
the risk is 1968.73573772 : iteration 2664  
the risk is 1967.86969385 : iteration 2665  
the risk is 1979.87287244 : iteration 2666  
the risk is 1963.25547376 : iteration 2667  
the risk is 1963.11868609 : iteration 2668  
the risk is 1962.49571835 : iteration 2669  
the risk is 1978.40903306 : iteration 2670  
the risk is 1971.02948318 : iteration 2671  
the risk is 1986.29437786 : iteration 2672  
the risk is 1972.3661539 : iteration 2673  
the risk is 1971.95117202 : iteration 2674  
the risk is 1960.25384102 : iteration 2675  
the risk is 1952.22461219 : iteration 2676  
the risk is 1948.70597675 : iteration 2677  
the risk is 2008.08613379 : iteration 2678  
the risk is 2005.15933907 : iteration 2679  
the risk is 2006.43980223 : iteration 2680  
the risk is 2001.02448974 : iteration 2681  
the risk is 2043.33793958 : iteration 2682  
the risk is 2001.61409958 : iteration 2683  
the risk is 2021.47622126 : iteration 2684  
the risk is 2020.37329837 : iteration 2685  
the risk is 2000.39599669 : iteration 2686  
the risk is 2040.34539586 : iteration 2687  
the risk is 2014.5144783 : iteration 2688  
the risk is 2023.37558593 : iteration 2689  
the risk is 2054.70879949 : iteration 2690  
the risk is 2028.15411017 : iteration 2691  
the risk is 2009.15450973 : iteration 2692  
the risk is 1993.16582832 : iteration 2693  
the risk is 1984.84719982 : iteration 2694  
the risk is 1984.31095601 : iteration 2695  
the risk is 1982.8352861 : iteration 2696  
the risk is 2047.68227946 : iteration 2697  
the risk is 2018.42522066 : iteration 2698  
the risk is 2015.29797205 : iteration 2699  
the risk is 2007.23593437 : iteration 2700  
the risk is 2007.52362207 : iteration 2701  
the risk is 2018.17156241 : iteration 2702  
the risk is 2018.06268 : iteration 2703

the risk is 1984.18706921 : iteration 2704  
the risk is 1983.38675277 : iteration 2705  
the risk is 1983.38508175 : iteration 2706  
the risk is 1993.34996311 : iteration 2707  
the risk is 2028.69459175 : iteration 2708  
the risk is 2025.4964802 : iteration 2709  
the risk is 2016.51940307 : iteration 2710  
the risk is 2008.87795957 : iteration 2711  
the risk is 1996.84032449 : iteration 2712  
the risk is 1996.35595848 : iteration 2713  
the risk is 1987.72841387 : iteration 2714  
the risk is 1989.36992141 : iteration 2715  
the risk is 1989.02792551 : iteration 2716  
the risk is 1985.68394414 : iteration 2717  
the risk is 1998.89449558 : iteration 2718  
the risk is 1996.6645914 : iteration 2719  
the risk is 2025.27327065 : iteration 2720  
the risk is 2007.36681096 : iteration 2721  
the risk is 2002.99781002 : iteration 2722  
the risk is 1983.53928658 : iteration 2723  
the risk is 1983.49784917 : iteration 2724  
the risk is 1982.98421518 : iteration 2725  
the risk is 1992.15626596 : iteration 2726  
the risk is 1984.16739365 : iteration 2727  
the risk is 1979.167013 : iteration 2728  
the risk is 1979.12940698 : iteration 2729  
the risk is 1979.13272677 : iteration 2730  
the risk is 1977.08473071 : iteration 2731  
the risk is 1980.9762087 : iteration 2732  
the risk is 1967.86872724 : iteration 2733  
the risk is 1967.93194721 : iteration 2734  
the risk is 1991.91524357 : iteration 2735  
the risk is 1989.71852392 : iteration 2736  
the risk is 1983.48861502 : iteration 2737  
the risk is 2003.47396878 : iteration 2738  
the risk is 1994.99684759 : iteration 2739  
the risk is 2021.47473558 : iteration 2740  
the risk is 2005.55550466 : iteration 2741  
the risk is 2041.84514265 : iteration 2742  
the risk is 2129.20788353 : iteration 2743  
the risk is 2154.63196436 : iteration 2744  
the risk is 2165.42693103 : iteration 2745  
the risk is 2100.64480898 : iteration 2746  
the risk is 2175.99047599 : iteration 2747  
the risk is 2117.42214595 : iteration 2748  
the risk is 2222.08926649 : iteration 2749  
the risk is 2267.12165596 : iteration 2750  
the risk is 2193.34066573 : iteration 2751  
the risk is 2278.83998513 : iteration 2752  
the risk is 2280.95158113 : iteration 2753  
the risk is 2326.15932186 : iteration 2754  
the risk is 2325.94471962 : iteration 2755  
the risk is 2310.32087661 : iteration 2756  
the risk is 2427.13605704 : iteration 2757

the risk is 2424.58332965 : iteration 2758  
the risk is 2478.72911638 : iteration 2759  
the risk is 2553.7031042 : iteration 2760  
the risk is 2571.81853576 : iteration 2761  
the risk is 2447.53546932 : iteration 2762  
the risk is 2344.72541538 : iteration 2763  
the risk is 2226.00359945 : iteration 2764  
the risk is 2212.51134031 : iteration 2765  
the risk is 2301.80819555 : iteration 2766  
the risk is 2346.13636638 : iteration 2767  
the risk is 2603.81022815 : iteration 2768  
the risk is 2412.14852427 : iteration 2769  
the risk is 2271.42068489 : iteration 2770  
the risk is 2205.06253905 : iteration 2771  
the risk is 2203.34625817 : iteration 2772  
the risk is 2201.17630619 : iteration 2773  
the risk is 2214.74476825 : iteration 2774  
the risk is 2117.30783372 : iteration 2775  
the risk is 2069.3943007 : iteration 2776  
the risk is 1982.38722665 : iteration 2777  
the risk is 1973.43106012 : iteration 2778  
the risk is 1973.25298289 : iteration 2779  
the risk is 1973.24345844 : iteration 2780  
the risk is 1972.2142289 : iteration 2781  
the risk is 1981.45552006 : iteration 2782  
the risk is 1961.50729385 : iteration 2783  
the risk is 1982.91452344 : iteration 2784  
the risk is 1968.28963832 : iteration 2785  
the risk is 1964.25012451 : iteration 2786  
the risk is 1964.02491262 : iteration 2787  
the risk is 1963.9160852 : iteration 2788  
the risk is 1963.81097887 : iteration 2789  
the risk is 1979.96390953 : iteration 2790  
the risk is 1978.09323115 : iteration 2791  
the risk is 1965.30783431 : iteration 2792  
the risk is 1965.17739554 : iteration 2793  
the risk is 1965.14426701 : iteration 2794  
the risk is 1975.72241178 : iteration 2795  
the risk is 1975.25261151 : iteration 2796  
the risk is 1972.9288938 : iteration 2797  
the risk is 2047.69679903 : iteration 2798  
the risk is 2022.8088563 : iteration 2799  
the risk is 2022.39304921 : iteration 2800  
the risk is 2020.46507475 : iteration 2801  
the risk is 2009.48696938 : iteration 2802  
the risk is 2006.80398908 : iteration 2803  
the risk is 2048.38056868 : iteration 2804  
the risk is 2046.83823235 : iteration 2805  
the risk is 2017.83119434 : iteration 2806  
the risk is 1964.92093295 : iteration 2807  
the risk is 1985.88317408 : iteration 2808  
the risk is 1984.27028141 : iteration 2809  
the risk is 1982.51612174 : iteration 2810  
the risk is 1988.18678785 : iteration 2811

the risk is 1973.28946291 : iteration 2812  
the risk is 1973.81619329 : iteration 2813  
the risk is 2005.26272119 : iteration 2814  
the risk is 2004.89756991 : iteration 2815  
the risk is 2053.60836903 : iteration 2816  
the risk is 2020.26683913 : iteration 2817  
the risk is 2039.19176048 : iteration 2818  
the risk is 2009.8356643 : iteration 2819  
the risk is 1999.55765475 : iteration 2820  
the risk is 1995.59264119 : iteration 2821  
the risk is 1986.03924009 : iteration 2822  
the risk is 1970.3130269 : iteration 2823  
the risk is 1959.53254798 : iteration 2824  
the risk is 1953.84153051 : iteration 2825  
the risk is 1955.52621719 : iteration 2826  
the risk is 1952.37118974 : iteration 2827  
the risk is 1956.51253456 : iteration 2828  
the risk is 1955.51815454 : iteration 2829  
the risk is 1957.2649491 : iteration 2830  
the risk is 1957.36517197 : iteration 2831  
the risk is 1957.66304232 : iteration 2832  
the risk is 1949.60106994 : iteration 2833  
the risk is 1950.26896038 : iteration 2834  
the risk is 1950.16981595 : iteration 2835  
the risk is 1953.16356176 : iteration 2836  
the risk is 1950.84762472 : iteration 2837  
the risk is 1947.14555994 : iteration 2838  
the risk is 1945.66810473 : iteration 2839  
the risk is 1945.97398717 : iteration 2840  
the risk is 1947.03511827 : iteration 2841  
the risk is 1940.28729275 : iteration 2842  
the risk is 1952.36663618 : iteration 2843  
the risk is 1957.07660648 : iteration 2844  
the risk is 1946.18214171 : iteration 2845  
the risk is 1937.91197487 : iteration 2846  
the risk is 1937.46594874 : iteration 2847  
the risk is 1942.83996471 : iteration 2848  
the risk is 1962.98281355 : iteration 2849  
the risk is 1957.06906727 : iteration 2850  
the risk is 1957.07059674 : iteration 2851  
the risk is 1958.58465817 : iteration 2852  
the risk is 1959.14048595 : iteration 2853  
the risk is 1959.22505731 : iteration 2854  
the risk is 1955.54930518 : iteration 2855  
the risk is 1976.95750873 : iteration 2856  
the risk is 1977.41067785 : iteration 2857  
the risk is 1979.31605541 : iteration 2858  
the risk is 1986.98919156 : iteration 2859  
the risk is 1987.80331692 : iteration 2860  
the risk is 2003.98228606 : iteration 2861  
the risk is 1993.14298823 : iteration 2862  
the risk is 1956.24379691 : iteration 2863  
the risk is 1945.6505545 : iteration 2864  
the risk is 1945.96345481 : iteration 2865

the risk is 1956.89869488 : iteration 2866  
the risk is 1961.99526885 : iteration 2867  
the risk is 1962.18888682 : iteration 2868  
the risk is 1939.84164329 : iteration 2869  
the risk is 1939.85196166 : iteration 2870  
the risk is 1936.9145782 : iteration 2871  
the risk is 1936.96719523 : iteration 2872  
the risk is 1931.731469 : iteration 2873  
the risk is 1939.57428908 : iteration 2874  
the risk is 1933.49751657 : iteration 2875  
the risk is 1947.48379271 : iteration 2876  
the risk is 1947.02143618 : iteration 2877  
the risk is 1943.23015856 : iteration 2878  
the risk is 1942.85987486 : iteration 2879  
the risk is 1974.75443857 : iteration 2880  
the risk is 1981.06922775 : iteration 2881  
the risk is 1973.93848898 : iteration 2882  
the risk is 1954.26996561 : iteration 2883  
the risk is 1944.03201359 : iteration 2884  
the risk is 1940.21561005 : iteration 2885  
the risk is 1939.84097555 : iteration 2886  
the risk is 1953.66047619 : iteration 2887  
the risk is 1934.88803568 : iteration 2888  
the risk is 1931.58826087 : iteration 2889  
the risk is 1931.40519049 : iteration 2890  
the risk is 1931.38418206 : iteration 2891  
the risk is 1931.34093885 : iteration 2892  
the risk is 1929.9944707 : iteration 2893  
the risk is 1929.95393453 : iteration 2894  
the risk is 1930.0170314 : iteration 2895  
the risk is 1930.55466347 : iteration 2896  
the risk is 1928.79049155 : iteration 2897  
the risk is 1935.51826843 : iteration 2898  
the risk is 2000.84423362 : iteration 2899  
the risk is 1954.58164828 : iteration 2900  
the risk is 1942.11255461 : iteration 2901  
the risk is 1942.11156302 : iteration 2902  
the risk is 1955.02178266 : iteration 2903  
the risk is 1947.47583846 : iteration 2904  
the risk is 1947.94090778 : iteration 2905  
the risk is 1948.09161974 : iteration 2906  
the risk is 1950.0831244 : iteration 2907  
the risk is 1957.80830775 : iteration 2908  
the risk is 1957.84746545 : iteration 2909  
the risk is 1949.51890379 : iteration 2910  
the risk is 1950.03242751 : iteration 2911  
the risk is 1968.64457737 : iteration 2912  
the risk is 1956.59268722 : iteration 2913  
the risk is 1956.47198621 : iteration 2914  
the risk is 1981.98827142 : iteration 2915  
the risk is 1970.45919122 : iteration 2916  
the risk is 1970.81104156 : iteration 2917  
the risk is 2002.93303912 : iteration 2918  
the risk is 2009.74405888 : iteration 2919



the risk is 2017.33618064 : iteration 2920  
the risk is 2017.55934965 : iteration 2921  
the risk is 2025.78305969 : iteration 2922  
the risk is 2012.75979393 : iteration 2923  
the risk is 2012.76633569 : iteration 2924  
the risk is 1990.50172963 : iteration 2925  
the risk is 2000.13733667 : iteration 2926  
the risk is 2006.93396923 : iteration 2927  
the risk is 2006.99318748 : iteration 2928  
the risk is 1966.95085712 : iteration 2929  
the risk is 1969.36406086 : iteration 2930  
the risk is 1969.38819151 : iteration 2931  
the risk is 1966.93452088 : iteration 2932  
the risk is 1968.0805676 : iteration 2933  
the risk is 1970.69080488 : iteration 2934  
the risk is 1974.47638469 : iteration 2935  
the risk is 1984.98306764 : iteration 2936  
the risk is 1969.0601517 : iteration 2937  
the risk is 1969.34289597 : iteration 2938  
the risk is 1969.42663453 : iteration 2939  
the risk is 1964.30329127 : iteration 2940  
the risk is 1964.20625516 : iteration 2941  
the risk is 1962.71013645 : iteration 2942  
the risk is 1952.94188478 : iteration 2943  
the risk is 1953.04278952 : iteration 2944  
the risk is 1953.0729394 : iteration 2945  
the risk is 1952.98875904 : iteration 2946  
the risk is 1955.21983563 : iteration 2947  
the risk is 1955.23820778 : iteration 2948  
the risk is 1962.30777971 : iteration 2949  
the risk is 1952.96026288 : iteration 2950  
the risk is 1953.2091398 : iteration 2951  
the risk is 1947.37057779 : iteration 2952  
the risk is 1947.33758927 : iteration 2953  
the risk is 1946.49281161 : iteration 2954  
the risk is 1945.5257151 : iteration 2955  
the risk is 1945.54613087 : iteration 2956  
the risk is 1944.80759683 : iteration 2957  
the risk is 1942.91048116 : iteration 2958  
the risk is 1944.12448392 : iteration 2959  
the risk is 1950.59225892 : iteration 2960  
the risk is 1947.78902538 : iteration 2961  
the risk is 1946.72201688 : iteration 2962  
the risk is 1949.19662176 : iteration 2963  
the risk is 1991.7975275 : iteration 2964  
the risk is 1991.59198255 : iteration 2965  
the risk is 2071.46597911 : iteration 2966  
the risk is 2136.42280456 : iteration 2967  
the risk is 2134.48841163 : iteration 2968  
the risk is 2084.39640392 : iteration 2969  
the risk is 2080.81095089 : iteration 2970  
the risk is 2113.00444408 : iteration 2971  
the risk is 2109.36274267 : iteration 2972  
the risk is 2109.5028265 : iteration 2973

```

the risk is 2105.73797256 : iteration 2974
the risk is 2134.69381042 : iteration 2975
the risk is 2008.54715556 : iteration 2976
the risk is 1979.28252688 : iteration 2977
the risk is 2086.98264892 : iteration 2978
the risk is 2076.96616593 : iteration 2979
the risk is 2066.02879129 : iteration 2980
the risk is 2127.56851354 : iteration 2981
the risk is 2135.11036447 : iteration 2982
the risk is 2064.00367304 : iteration 2983
the risk is 2018.88532541 : iteration 2984
the risk is 2018.86484439 : iteration 2985
the risk is 2022.29227704 : iteration 2986
the risk is 1993.09866324 : iteration 2987
the risk is 1990.51389123 : iteration 2988
the risk is 1974.20998364 : iteration 2989
the risk is 1985.98964033 : iteration 2990
the risk is 1995.15919228 : iteration 2991
the risk is 2000.89313779 : iteration 2992
the risk is 2007.40622337 : iteration 2993
the risk is 2022.65532272 : iteration 2994
the risk is 2025.03936747 : iteration 2995
the risk is 2027.44919338 : iteration 2996
the risk is 2046.51990959 : iteration 2997
the risk is 2055.39792415 : iteration 2998
the risk is 2055.31713203 : iteration 2999
the risk is 2065.03700687 : iteration 3000

```

```
In [391]: np.amin(training_risk3)
```

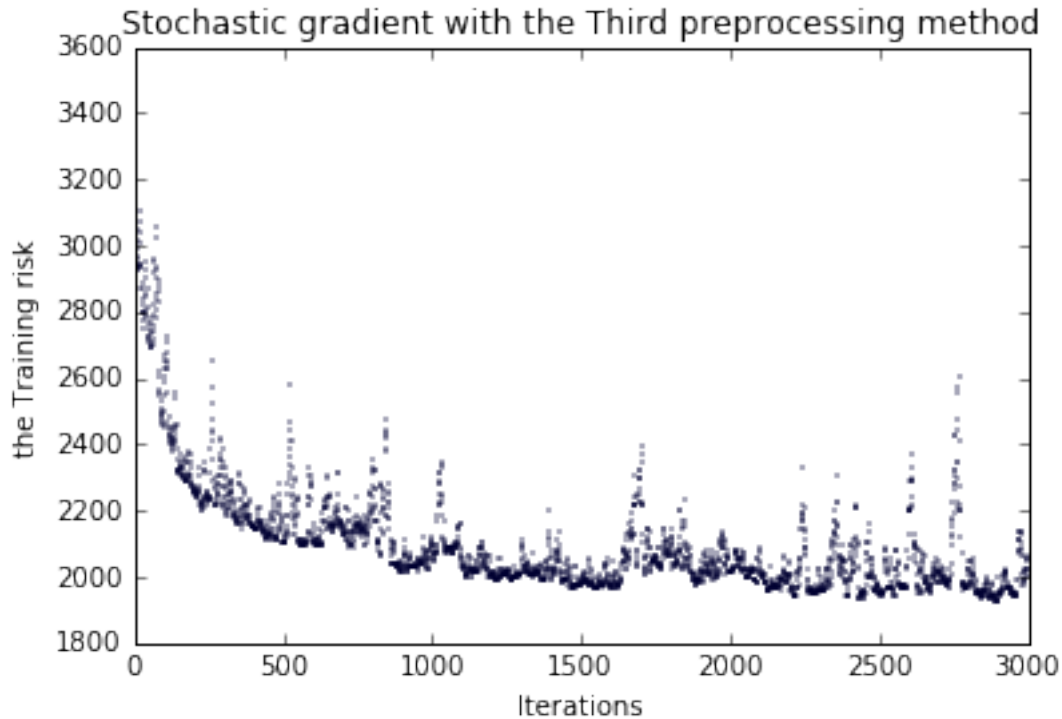
```
Out[391]: 1928.7904915537711
```

After 3000 iterations, the training risk decreases down to 2065.03700687 and the smallest risk we obtained is 1928.7904915537711. We plot the training risk over the number of iterations.

```

In [392]: xpos = np.arange(len(training_risk3))+ 1
          plt.plot(xpos, training_risk3, 'bo', ms =0.7)
          plt.xlabel('Iterations')
          plt.ylabel('the Training risk')
          plt.title('Stochastic gradient with the Third preprocessing method')
          plt.show()

```



**Stochastic gradient descent VS Batch gradient descent** It appears that the convergence rate, the speed in which a method converge to the minima, is higher in the batch gradient descent and the batch gradient method guarantees continuous decrease in the training risk. However, the stochastic gradient descent takes shorter time to compute for each step.

**Stochastic gradient descent with learning rate decreasing over iterations**

```
In [407]: def logistic_with_stochastic_gradient_decreasing_stepsize(w,X,y,e,n):
            w_temp = w
            risk = []
            nr.seed(0)
            indice = nr.choice(X.shape[0], n, replace =True)
            for i in np.arange(n):
                risk_temp = R(w_temp,X,y)
                j = indice[i]
                print ('the risk is ', risk_temp, ': iteration ', (i+1))
                w_temp = w_temp + (e/(i+1)) * (y[j]- s(np.dot(X[j,], w_temp)))* X[j,]
                risk = risk + [risk_temp]
            return risk
```

We run the stochastic gradient descent with learning rate  $\frac{1}{t}$  at step  $t$  on the first preprocessed data.

```
In [434]: training_risk_1 =logistic_with_stochastic_gradient_decreasing_stepsize(w_0,sp_xtrain1,sp_ytra

the risk is  3584.95721786 : iteration  1
the risk is  3252.40655651 : iteration  2
the risk is  3292.63860538 : iteration  3
the risk is  3085.89503634 : iteration  4
```

the risk is 3089.78974106 : iteration 5  
the risk is 3109.51461573 : iteration 6  
the risk is 3154.79380864 : iteration 7  
the risk is 3048.49271007 : iteration 8  
the risk is 2969.46275236 : iteration 9  
the risk is 2967.25125777 : iteration 10  
the risk is 2949.99562319 : iteration 11  
the risk is 2951.8960458 : iteration 12  
the risk is 2980.84524371 : iteration 13  
the risk is 2977.99348608 : iteration 14  
the risk is 2977.92216353 : iteration 15  
the risk is 2976.82336165 : iteration 16  
the risk is 2982.70675854 : iteration 17  
the risk is 2980.59906972 : iteration 18  
the risk is 2974.74318382 : iteration 19  
the risk is 2966.64958389 : iteration 20  
the risk is 2963.40535639 : iteration 21  
the risk is 2928.76700771 : iteration 22  
the risk is 2927.56088854 : iteration 23  
the risk is 2926.76399131 : iteration 24  
the risk is 2919.45911985 : iteration 25  
the risk is 2919.91218363 : iteration 26  
the risk is 2920.39943323 : iteration 27  
the risk is 2925.51197127 : iteration 28  
the risk is 2927.17337563 : iteration 29  
the risk is 2926.59849333 : iteration 30  
the risk is 2927.07749771 : iteration 31  
the risk is 2927.13348438 : iteration 32  
the risk is 2924.36047201 : iteration 33  
the risk is 2896.71710829 : iteration 34  
the risk is 2903.88644715 : iteration 35  
the risk is 2911.83297002 : iteration 36  
the risk is 2908.38931752 : iteration 37  
the risk is 2916.54026975 : iteration 38  
the risk is 2916.40611858 : iteration 39  
the risk is 2914.78518849 : iteration 40  
the risk is 2914.63104421 : iteration 41  
the risk is 2922.58209337 : iteration 42  
the risk is 2914.16948317 : iteration 43  
the risk is 2894.80863625 : iteration 44  
the risk is 2887.73470426 : iteration 45  
the risk is 2884.28316303 : iteration 46  
the risk is 2881.72892194 : iteration 47  
the risk is 2880.80295456 : iteration 48  
the risk is 2887.44852166 : iteration 49  
the risk is 2884.26315824 : iteration 50  
the risk is 2880.53576413 : iteration 51  
the risk is 2878.27601281 : iteration 52  
the risk is 2875.59323911 : iteration 53  
the risk is 2874.53554225 : iteration 54  
the risk is 2872.59460172 : iteration 55  
the risk is 2870.76149347 : iteration 56  
the risk is 2870.75104505 : iteration 57  
the risk is 2869.0026815 : iteration 58

the risk is 2866.94904844 : iteration 59  
the risk is 2866.94228197 : iteration 60  
the risk is 2866.69854723 : iteration 61  
the risk is 2865.16474718 : iteration 62  
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the risk is 2526.9199248 : iteration 2595  
the risk is 2526.97263263 : iteration 2596

the risk is 2526.95595368 : iteration 2597  
the risk is 2526.91306197 : iteration 2598  
the risk is 2526.96590095 : iteration 2599  
the risk is 2526.94428746 : iteration 2600  
the risk is 2526.9197641 : iteration 2601  
the risk is 2526.88201969 : iteration 2602  
the risk is 2526.85550575 : iteration 2603  
the risk is 2526.83402424 : iteration 2604  
the risk is 2526.88663409 : iteration 2605  
the risk is 2526.93964398 : iteration 2606  
the risk is 2526.98075656 : iteration 2607  
the risk is 2526.96399087 : iteration 2608  
the risk is 2526.94229514 : iteration 2609  
the risk is 2526.90339979 : iteration 2610  
the risk is 2526.57994007 : iteration 2611  
the risk is 2526.55843894 : iteration 2612  
the risk is 2526.58993747 : iteration 2613  
the risk is 2526.56825176 : iteration 2614  
the risk is 2526.56409624 : iteration 2615  
the risk is 2526.54589323 : iteration 2616  
the risk is 2526.52445255 : iteration 2617  
the risk is 2526.46568349 : iteration 2618  
the risk is 2526.2807106 : iteration 2619  
the risk is 2526.25703531 : iteration 2620  
the risk is 2526.24439271 : iteration 2621  
the risk is 2526.2448322 : iteration 2622  
the risk is 2526.20206571 : iteration 2623  
the risk is 2526.17849764 : iteration 2624  
the risk is 2526.15916995 : iteration 2625  
the risk is 2526.13779974 : iteration 2626  
the risk is 2526.13045899 : iteration 2627  
the risk is 2526.0677328 : iteration 2628  
the risk is 2526.04644658 : iteration 2629  
the risk is 2525.95149923 : iteration 2630  
the risk is 2525.91017634 : iteration 2631  
the risk is 2525.96220428 : iteration 2632  
the risk is 2525.93427411 : iteration 2633  
the risk is 2525.91605042 : iteration 2634  
the risk is 2525.85766773 : iteration 2635  
the risk is 2525.82727181 : iteration 2636  
the risk is 2525.87932222 : iteration 2637  
the risk is 2526.00780574 : iteration 2638  
the risk is 2525.99131511 : iteration 2639  
the risk is 2525.97457779 : iteration 2640  
the risk is 2525.94839154 : iteration 2641  
the risk is 2525.92718239 : iteration 2642  
the risk is 2525.96948879 : iteration 2643  
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the risk is 2525.98583262 : iteration 2645  
the risk is 2525.97776116 : iteration 2646  
the risk is 2526.02940706 : iteration 2647  
the risk is 2526.0082905 : iteration 2648  
the risk is 2525.99197585 : iteration 2649  
the risk is 2525.98511397 : iteration 2650

the risk is 2525.97952159 : iteration 2651  
the risk is 2526.00566289 : iteration 2652  
the risk is 2525.83028896 : iteration 2653  
the risk is 2525.83063788 : iteration 2654  
the risk is 2525.83816469 : iteration 2655  
the risk is 2525.84366358 : iteration 2656  
the risk is 2525.82266691 : iteration 2657  
the risk is 2525.80170997 : iteration 2658  
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the risk is 2525.73731063 : iteration 2660  
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the risk is 2525.56043565 : iteration 2668  
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the risk is 2525.55664882 : iteration 2672  
the risk is 2525.56160612 : iteration 2673  
the risk is 2525.55199524 : iteration 2674  
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the risk is 2525.52768126 : iteration 2676  
the risk is 2525.50705109 : iteration 2677  
the risk is 2525.39666485 : iteration 2678  
the risk is 2525.37195632 : iteration 2679  
the risk is 2525.07027778 : iteration 2680  
the risk is 2525.06318261 : iteration 2681  
the risk is 2525.11362339 : iteration 2682  
the risk is 2525.10481337 : iteration 2683  
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the risk is 2525.07359791 : iteration 2685  
the risk is 2525.05304705 : iteration 2686  
the risk is 2525.10344285 : iteration 2687  
the risk is 2525.08286225 : iteration 2688  
the risk is 2525.0708613 : iteration 2689  
the risk is 2524.98183348 : iteration 2690  
the risk is 2524.96133524 : iteration 2691  
the risk is 2524.94087554 : iteration 2692  
the risk is 2524.92507668 : iteration 2693  
the risk is 2524.90468826 : iteration 2694  
the risk is 2524.89177013 : iteration 2695  
the risk is 2524.87993319 : iteration 2696  
the risk is 2524.77076392 : iteration 2697  
the risk is 2524.77913941 : iteration 2698  
the risk is 2524.77670198 : iteration 2699  
the risk is 2524.76081665 : iteration 2700  
the risk is 2524.74042105 : iteration 2701  
the risk is 2524.7902399 : iteration 2702  
the risk is 2524.78460085 : iteration 2703  
the risk is 2524.82596878 : iteration 2704

the risk is 2524.74896295 : iteration 2705  
the risk is 2524.74896326 : iteration 2706  
the risk is 2524.79052674 : iteration 2707  
the risk is 2524.85361443 : iteration 2708  
the risk is 2524.8291724 : iteration 2709  
the risk is 2524.82476623 : iteration 2710  
the risk is 2524.80412492 : iteration 2711  
the risk is 2524.7838007 : iteration 2712  
the risk is 2524.74613117 : iteration 2713  
the risk is 2524.73046297 : iteration 2714  
the risk is 2524.69276212 : iteration 2715  
the risk is 2524.66614777 : iteration 2716  
the risk is 2524.6459718 : iteration 2717  
the risk is 2524.69548998 : iteration 2718  
the risk is 2524.68678628 : iteration 2719  
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the risk is 2524.71635194 : iteration 2721  
the risk is 2524.71200193 : iteration 2722  
the risk is 2524.71384572 : iteration 2723  
the risk is 2524.65389903 : iteration 2724  
the risk is 2524.63489388 : iteration 2725  
the risk is 2524.64088257 : iteration 2726  
the risk is 2524.62072816 : iteration 2727  
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the risk is 2524.56894558 : iteration 2729  
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the risk is 2524.43166792 : iteration 2735  
the risk is 2524.40755419 : iteration 2736  
the risk is 2524.43970347 : iteration 2737  
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the risk is 2524.44485539 : iteration 2739  
the risk is 2524.4941838 : iteration 2740  
the risk is 2524.49844731 : iteration 2741  
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the risk is 2524.54181392 : iteration 2743  
the risk is 2524.51013466 : iteration 2744  
the risk is 2524.36001531 : iteration 2745  
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the risk is 2524.30494163 : iteration 2757  
the risk is 2524.23601833 : iteration 2758

the risk is 2524.20979635 : iteration 2759  
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the risk is 2523.83951842 : iteration 2770  
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the risk is 2523.61473482 : iteration 2777  
the risk is 2523.58975033 : iteration 2778  
the risk is 2523.54938378 : iteration 2779  
the risk is 2523.54909332 : iteration 2780  
the risk is 2523.52504292 : iteration 2781  
the risk is 2523.46032736 : iteration 2782  
the risk is 2523.49134269 : iteration 2783  
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the risk is 2523.31755039 : iteration 2790  
the risk is 2523.31716873 : iteration 2791  
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the risk is 2523.35681617 : iteration 2798  
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the risk is 2523.27732701 : iteration 2802  
the risk is 2523.23283698 : iteration 2803  
the risk is 2523.2817327 : iteration 2804  
the risk is 2523.25322677 : iteration 2805  
the risk is 2523.23774288 : iteration 2806  
the risk is 2523.23774392 : iteration 2807  
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the risk is 2522.78639364 : iteration 2809  
the risk is 2522.78685648 : iteration 2810  
the risk is 2522.63417586 : iteration 2811  
the risk is 2522.6225157 : iteration 2812

the risk is 2522.59931415 : iteration 2813  
the risk is 2522.64772204 : iteration 2814  
the risk is 2522.60187484 : iteration 2815  
the risk is 2522.6503598 : iteration 2816  
the risk is 2522.63051996 : iteration 2817  
the risk is 2522.64998538 : iteration 2818  
the risk is 2522.634598 : iteration 2819  
the risk is 2522.62966918 : iteration 2820  
the risk is 2522.62561375 : iteration 2821  
the risk is 2522.5994705 : iteration 2822  
the risk is 2522.57970741 : iteration 2823  
the risk is 2522.56441988 : iteration 2824  
the risk is 2522.54472201 : iteration 2825  
the risk is 2522.48294076 : iteration 2826  
the risk is 2522.47011977 : iteration 2827  
the risk is 2522.45046807 : iteration 2828  
the risk is 2522.43916047 : iteration 2829  
the risk is 2522.42396828 : iteration 2830  
the risk is 2522.41352072 : iteration 2831  
the risk is 2522.3855529 : iteration 2832  
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the risk is 2522.41389202 : iteration 2834  
the risk is 2522.41954412 : iteration 2835  
the risk is 2522.46545126 : iteration 2836  
the risk is 2522.51343204 : iteration 2837  
the risk is 2522.49822688 : iteration 2838  
the risk is 2522.48304576 : iteration 2839  
the risk is 2522.46788865 : iteration 2840  
the risk is 2522.51580147 : iteration 2841  
the risk is 2522.51274577 : iteration 2842  
the risk is 2522.56074798 : iteration 2843  
the risk is 2522.36153277 : iteration 2844  
the risk is 2522.34190047 : iteration 2845  
the risk is 2522.33171797 : iteration 2846  
the risk is 2522.32017289 : iteration 2847  
the risk is 2522.36809038 : iteration 2848  
the risk is 2522.25592634 : iteration 2849  
the risk is 2522.31406558 : iteration 2850  
the risk is 2522.31267743 : iteration 2851  
the risk is 2522.29745174 : iteration 2852  
the risk is 2522.25537804 : iteration 2853  
the risk is 2522.23318322 : iteration 2854  
the risk is 2522.19778562 : iteration 2855  
the risk is 2522.20366912 : iteration 2856  
the risk is 2522.1770929 : iteration 2857  
the risk is 2522.13360957 : iteration 2858  
the risk is 2522.12894237 : iteration 2859  
the risk is 2522.0830036 : iteration 2860  
the risk is 2522.06354559 : iteration 2861  
the risk is 2522.05845522 : iteration 2862  
the risk is 2522.05724585 : iteration 2863  
the risk is 2522.10491246 : iteration 2864  
the risk is 2522.08979311 : iteration 2865  
the risk is 2522.06813439 : iteration 2866



the risk is 2522.05306653 : iteration 2867  
the risk is 2522.01794041 : iteration 2868  
the risk is 2522.0464975 : iteration 2869  
the risk is 2522.02254947 : iteration 2870  
the risk is 2522.00947342 : iteration 2871  
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the risk is 2521.74060089 : iteration 2875  
the risk is 2521.76765281 : iteration 2876  
the risk is 2521.75462431 : iteration 2877  
the risk is 2521.80205299 : iteration 2878  
the risk is 2521.77635157 : iteration 2879  
the risk is 2521.72610324 : iteration 2880  
the risk is 2521.61946933 : iteration 2881  
the risk is 2521.60144749 : iteration 2882  
the risk is 2521.58211417 : iteration 2883  
the risk is 2521.57763281 : iteration 2884  
the risk is 2521.55826327 : iteration 2885  
the risk is 2521.54157384 : iteration 2886  
the risk is 2521.53451803 : iteration 2887  
the risk is 2521.58144952 : iteration 2888  
the risk is 2521.56652066 : iteration 2889  
the risk is 2521.53909007 : iteration 2890  
the risk is 2521.52133498 : iteration 2891  
the risk is 2521.51030755 : iteration 2892  
the risk is 2521.49545292 : iteration 2893  
the risk is 2521.44545377 : iteration 2894  
the risk is 2521.41505612 : iteration 2895  
the risk is 2521.40025167 : iteration 2896  
the risk is 2521.36543833 : iteration 2897  
the risk is 2521.41224017 : iteration 2898  
the risk is 2521.37366496 : iteration 2899  
the risk is 2521.38549744 : iteration 2900  
the risk is 2521.36693011 : iteration 2901  
the risk is 2521.2722444 : iteration 2902  
the risk is 2521.31135261 : iteration 2903  
the risk is 2521.29219058 : iteration 2904  
the risk is 2521.29068347 : iteration 2905  
the risk is 2521.29249584 : iteration 2906  
the risk is 2521.27768292 : iteration 2907  
the risk is 2521.25859272 : iteration 2908  
the risk is 2521.2254037 : iteration 2909  
the risk is 2521.14302373 : iteration 2910  
the risk is 2521.18978826 : iteration 2911  
the risk is 2521.2366728 : iteration 2912  
the risk is 2521.2430727 : iteration 2913  
the risk is 2521.20856644 : iteration 2914  
the risk is 2521.25551181 : iteration 2915  
the risk is 2521.61517234 : iteration 2916  
the risk is 2521.61204064 : iteration 2917  
the risk is 2521.60340602 : iteration 2918  
the risk is 2521.58850607 : iteration 2919  
the risk is 2521.57362894 : iteration 2920

the risk is 2521.52986603 : iteration 2921  
the risk is 2521.51503187 : iteration 2922  
the risk is 2521.4823076 : iteration 2923  
the risk is 2521.4468046 : iteration 2924  
the risk is 2521.49361526 : iteration 2925  
the risk is 2521.47444589 : iteration 2926  
the risk is 2521.47576416 : iteration 2927  
the risk is 2521.46154797 : iteration 2928  
the risk is 2519.80644895 : iteration 2929  
the risk is 2519.89059437 : iteration 2930  
the risk is 2519.86063724 : iteration 2931  
the risk is 2519.41450252 : iteration 2932  
the risk is 2519.40006739 : iteration 2933  
the risk is 2519.38565458 : iteration 2934  
the risk is 2519.37471461 : iteration 2935  
the risk is 2519.37758627 : iteration 2936  
the risk is 2519.42318621 : iteration 2937  
the risk is 2519.4056887 : iteration 2938  
the risk is 2519.36885887 : iteration 2939  
the risk is 2519.38613289 : iteration 2940  
the risk is 2519.30813801 : iteration 2941  
the risk is 2519.31176839 : iteration 2942  
the risk is 2519.29316869 : iteration 2943  
the risk is 2519.30048834 : iteration 2944  
the risk is 2519.28696011 : iteration 2945  
the risk is 2519.27102631 : iteration 2946  
the risk is 2519.25251085 : iteration 2947  
the risk is 2519.20346834 : iteration 2948  
the risk is 2519.18501157 : iteration 2949  
the risk is 2519.23029675 : iteration 2950  
the risk is 2519.23596979 : iteration 2951  
the risk is 2519.20242416 : iteration 2952  
the risk is 2519.18706285 : iteration 2953  
the risk is 2519.14557121 : iteration 2954  
the risk is 2519.12714383 : iteration 2955  
the risk is 2519.1271255 : iteration 2956  
the risk is 2519.06949896 : iteration 2957  
the risk is 2519.06642877 : iteration 2958  
the risk is 2519.06618351 : iteration 2959  
the risk is 2519.111319 : iteration 2960  
the risk is 2519.11015181 : iteration 2961  
the risk is 2519.08940274 : iteration 2962  
the risk is 2519.11641599 : iteration 2963  
the risk is 2519.03882148 : iteration 2964  
the risk is 2519.02491973 : iteration 2965  
the risk is 2519.05191965 : iteration 2966  
the risk is 2519.09732121 : iteration 2967  
the risk is 2519.07625668 : iteration 2968  
the risk is 2519.04885227 : iteration 2969  
the risk is 2519.00745484 : iteration 2970  
the risk is 2518.42868308 : iteration 2971  
the risk is 2518.42482808 : iteration 2972  
the risk is 2518.41225336 : iteration 2973  
the risk is 2518.39414334 : iteration 2974

```

the risk is 2518.31359094 : iteration 2975
the risk is 2518.32229277 : iteration 2976
the risk is 2518.3229979 : iteration 2977
the risk is 2518.38436352 : iteration 2978
the risk is 2518.36244733 : iteration 2979
the risk is 2518.32153486 : iteration 2980
the risk is 2518.36607779 : iteration 2981
the risk is 2518.34297763 : iteration 2982
the risk is 2518.34759356 : iteration 2983
the risk is 2518.32727516 : iteration 2984
the risk is 2518.32661548 : iteration 2985
the risk is 2518.12750563 : iteration 2986
the risk is 2518.10939783 : iteration 2987
the risk is 2518.14073466 : iteration 2988
the risk is 2518.12265615 : iteration 2989
the risk is 2518.24819988 : iteration 2990
the risk is 2518.24551491 : iteration 2991
the risk is 2518.23155956 : iteration 2992
the risk is 2518.21762553 : iteration 2993
the risk is 2518.19963968 : iteration 2994
the risk is 2518.15902748 : iteration 2995
the risk is 2518.13735112 : iteration 2996
the risk is 2518.11944996 : iteration 2997
the risk is 2518.10149039 : iteration 2998
the risk is 2518.09542587 : iteration 2999
the risk is 2518.08163549 : iteration 3000

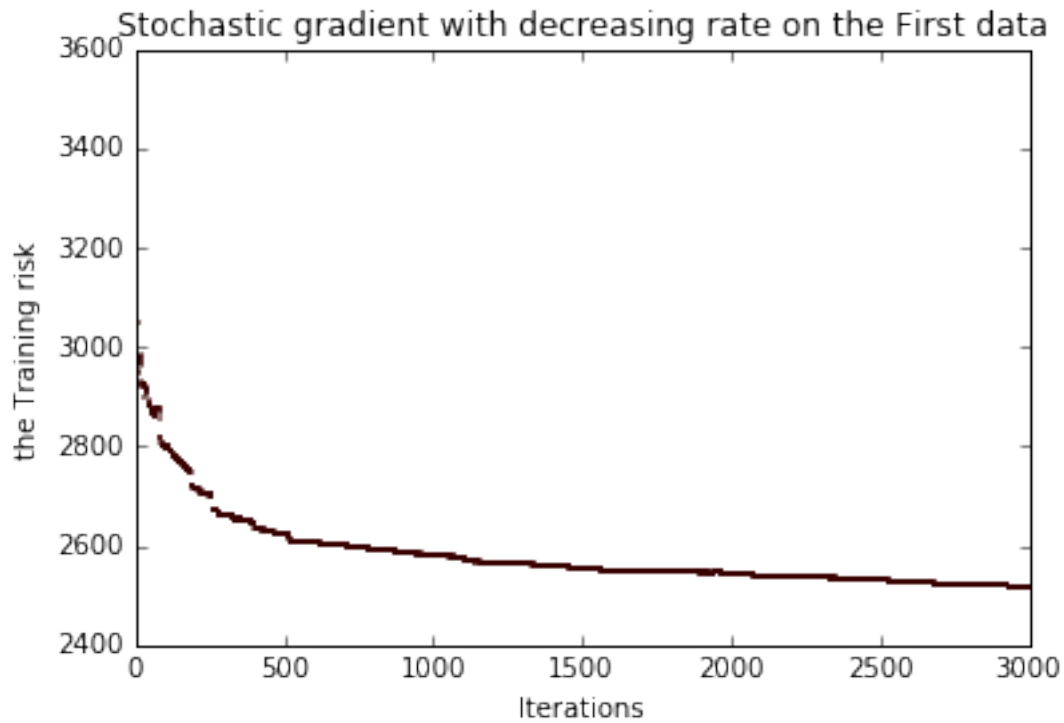
```

After 3000 iterations, the training risk decreases down to 2518.08163549. We plot the training risk over the number of iterations.

```

In [435]: xpos = np.arange(len(training_risk_1))+ 1
          plt.plot(xpos, training_risk_1, 'ro', ms =1)
          plt.xlabel('Iterations')
          plt.ylabel('the Training risk')
          plt.title('Stochastic gradient with decreasing rate on the First data')
          plt.show()

```



We run the stochastic gradient descent with the decreasing step size  $\frac{1.1}{t}$  at step  $t$ .

In [455]: `training_risk_2 =logistic_with_stochastic_gradient_decreasing_stepsize(w_0,sp_xtrain2,sp_ytra`

```

the risk is 3584.95721786 : iteration 1
the risk is 124707.212082 : iteration 2
the risk is 124707.212082 : iteration 3
the risk is 124707.212082 : iteration 4
the risk is 124707.212082 : iteration 5
the risk is 124707.212082 : iteration 6
the risk is 124707.212082 : iteration 7
the risk is 91134.397048 : iteration 8
the risk is 91134.397048 : iteration 9
the risk is 91134.397048 : iteration 10
the risk is 65899.9551046 : iteration 11
the risk is 65899.9551046 : iteration 12
the risk is 65899.9551046 : iteration 13
the risk is 65899.9551046 : iteration 14
the risk is 65899.9551046 : iteration 15
the risk is 65899.9551046 : iteration 16
the risk is 49957.5734774 : iteration 17
the risk is 49957.5734774 : iteration 18
the risk is 49957.5734774 : iteration 19
the risk is 49957.5734774 : iteration 20
the risk is 49957.5734774 : iteration 21
the risk is 49957.5734774 : iteration 22
the risk is 49957.5734774 : iteration 23
the risk is 49957.5734774 : iteration 24

```

the risk is 40084.8346309 : iteration 25  
the risk is 40084.8346309 : iteration 26  
the risk is 30379.2842424 : iteration 27  
the risk is 20932.11948 : iteration 28  
the risk is 12721.4788183 : iteration 29  
the risk is 12721.4905702 : iteration 30  
the risk is 5377.63084789 : iteration 31  
the risk is 5451.29178502 : iteration 32  
the risk is 5498.39578643 : iteration 33  
the risk is 5502.87367355 : iteration 34  
the risk is 3668.47261907 : iteration 35  
the risk is 7731.1758378 : iteration 36  
the risk is 3983.41537084 : iteration 37  
the risk is 14220.5107444 : iteration 38  
the risk is 9164.855673 : iteration 39  
the risk is 2877.79187613 : iteration 40  
the risk is 2875.01800508 : iteration 41  
the risk is 8469.03617259 : iteration 42  
the risk is 8511.72108088 : iteration 43  
the risk is 2870.8799646 : iteration 44  
the risk is 2929.79344281 : iteration 45  
the risk is 3127.73469254 : iteration 46  
the risk is 3141.88199237 : iteration 47  
the risk is 3296.53628774 : iteration 48  
the risk is 4404.14447141 : iteration 49  
the risk is 2894.04976587 : iteration 50  
the risk is 3050.86578537 : iteration 51  
the risk is 3064.14201585 : iteration 52  
the risk is 3219.11221615 : iteration 53  
the risk is 3223.4342218 : iteration 54  
the risk is 3234.77935734 : iteration 55  
the risk is 3245.8216115 : iteration 56  
the risk is 3718.42838148 : iteration 57  
the risk is 3803.22053718 : iteration 58  
the risk is 3877.388961 : iteration 59  
the risk is 4193.06784683 : iteration 60  
the risk is 2829.77841126 : iteration 61  
the risk is 2822.13132301 : iteration 62  
the risk is 2818.30612213 : iteration 63  
the risk is 2870.03390747 : iteration 64  
the risk is 3000.69447455 : iteration 65  
the risk is 3150.79462334 : iteration 66  
the risk is 4867.23486653 : iteration 67  
the risk is 4981.97299261 : iteration 68  
the risk is 5003.59497559 : iteration 69  
the risk is 5361.07594556 : iteration 70  
the risk is 5487.37316292 : iteration 71  
the risk is 3236.48574366 : iteration 72  
the risk is 3244.209375 : iteration 73  
the risk is 3245.3232757 : iteration 74  
the risk is 3020.55794553 : iteration 75  
the risk is 3007.63768251 : iteration 76  
the risk is 4360.51554925 : iteration 77  
the risk is 3839.95287967 : iteration 78

the risk is 2828.14516179 : iteration 79  
the risk is 2835.01052931 : iteration 80  
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the risk is 2441.65289956 : iteration 2621  
the risk is 2441.61963352 : iteration 2622  
the risk is 2440.18103678 : iteration 2623  
the risk is 2437.15882985 : iteration 2624  
the risk is 2438.34350533 : iteration 2625  
the risk is 2434.04288531 : iteration 2626  
the risk is 2425.3875757 : iteration 2627  
the risk is 2423.93622588 : iteration 2628  
the risk is 2421.0632651 : iteration 2629  
the risk is 2421.78006761 : iteration 2630  
the risk is 2420.90252004 : iteration 2631  
the risk is 2427.71975901 : iteration 2632  
the risk is 2428.13701603 : iteration 2633  
the risk is 2428.21325504 : iteration 2634  
the risk is 2435.58455757 : iteration 2635  
the risk is 2433.09253705 : iteration 2636  
the risk is 2442.20882088 : iteration 2637  
the risk is 2432.66768265 : iteration 2638  
the risk is 2431.89334951 : iteration 2639  
the risk is 2423.11847303 : iteration 2640  
the risk is 2423.25251753 : iteration 2641  
the risk is 2420.42995669 : iteration 2642  
the risk is 2420.04207334 : iteration 2643  
the risk is 2414.16694573 : iteration 2644  
the risk is 2409.54895859 : iteration 2645  
the risk is 2409.42089427 : iteration 2646  
the risk is 2412.51426954 : iteration 2647  
the risk is 2411.08398817 : iteration 2648  
the risk is 2410.85865642 : iteration 2649  
the risk is 2410.10331024 : iteration 2650  
the risk is 2409.04548255 : iteration 2651  
the risk is 2411.87473837 : iteration 2652  
the risk is 2416.60836694 : iteration 2653  
the risk is 2415.99533503 : iteration 2654  
the risk is 2415.59848301 : iteration 2655  
the risk is 2413.71393651 : iteration 2656  
the risk is 2411.91170569 : iteration 2657  
the risk is 2410.39372008 : iteration 2658  
the risk is 2410.28651246 : iteration 2659  
the risk is 2409.70079918 : iteration 2660  
the risk is 2409.4842559 : iteration 2661  
the risk is 2410.97464373 : iteration 2662  
the risk is 2409.74668301 : iteration 2663  
the risk is 2408.94243088 : iteration 2664  
the risk is 2408.88422032 : iteration 2665  
the risk is 2410.19652043 : iteration 2666  
the risk is 2409.07012024 : iteration 2667  
the risk is 2408.72147893 : iteration 2668  
the risk is 2407.98213549 : iteration 2669  
the risk is 2411.01416183 : iteration 2670

the risk is 2410.82601551 : iteration 2671  
the risk is 2410.92892791 : iteration 2672  
the risk is 2409.78051132 : iteration 2673  
the risk is 2409.21330945 : iteration 2674  
the risk is 2409.089777 : iteration 2675  
the risk is 2408.97002101 : iteration 2676  
the risk is 2407.97076601 : iteration 2677  
the risk is 2411.09413983 : iteration 2678  
the risk is 2410.05872411 : iteration 2679  
the risk is 2413.9634499 : iteration 2680  
the risk is 2413.61373953 : iteration 2681  
the risk is 2419.39616896 : iteration 2682  
the risk is 2412.28688419 : iteration 2683  
the risk is 2412.78650801 : iteration 2684  
the risk is 2412.66331728 : iteration 2685  
the risk is 2410.75267119 : iteration 2686  
the risk is 2415.73285526 : iteration 2687  
the risk is 2413.41743802 : iteration 2688  
the risk is 2414.12223844 : iteration 2689  
the risk is 2420.1848184 : iteration 2690  
the risk is 2417.29289393 : iteration 2691  
the risk is 2414.72933926 : iteration 2692  
the risk is 2414.27591558 : iteration 2693  
the risk is 2412.08679099 : iteration 2694  
the risk is 2411.30259535 : iteration 2695  
the risk is 2410.5387043 : iteration 2696  
the risk is 2416.19317828 : iteration 2697  
the risk is 2415.96094648 : iteration 2698  
the risk is 2415.901339 : iteration 2699  
the risk is 2409.97397915 : iteration 2700  
the risk is 2408.49215738 : iteration 2701  
the risk is 2413.10474372 : iteration 2702  
the risk is 2413.0850072 : iteration 2703  
the risk is 2412.74736584 : iteration 2704  
the risk is 2412.3667856 : iteration 2705  
the risk is 2412.36025914 : iteration 2706  
the risk is 2418.44576427 : iteration 2707  
the risk is 2425.76002129 : iteration 2708  
the risk is 2423.38949778 : iteration 2709  
the risk is 2423.28409908 : iteration 2710  
the risk is 2420.62151108 : iteration 2711  
the risk is 2417.6299215 : iteration 2712  
the risk is 2416.22092391 : iteration 2713  
the risk is 2415.71333726 : iteration 2714  
the risk is 2417.94011871 : iteration 2715  
the risk is 2412.36192837 : iteration 2716  
the risk is 2410.30079342 : iteration 2717  
the risk is 2415.56822515 : iteration 2718  
the risk is 2409.35438477 : iteration 2719  
the risk is 2414.56466178 : iteration 2720  
the risk is 2412.1943534 : iteration 2721  
the risk is 2412.14265519 : iteration 2722  
the risk is 2411.92706106 : iteration 2723  
the risk is 2410.9437 : iteration 2724

the risk is 2410.71372391 : iteration 2725  
the risk is 2415.55868959 : iteration 2726  
the risk is 2413.06898766 : iteration 2727  
the risk is 2412.65441275 : iteration 2728  
the risk is 2411.78506488 : iteration 2729  
the risk is 2410.02370412 : iteration 2730  
the risk is 2409.81962983 : iteration 2731  
the risk is 2408.13258488 : iteration 2732  
the risk is 2408.40146035 : iteration 2733  
the risk is 2409.05911443 : iteration 2734  
the risk is 2414.10095556 : iteration 2735  
the risk is 2412.52364897 : iteration 2736  
the risk is 2406.53730064 : iteration 2737  
the risk is 2410.66586826 : iteration 2738  
the risk is 2406.86892991 : iteration 2739  
the risk is 2411.37378242 : iteration 2740  
the risk is 2411.24690992 : iteration 2741  
the risk is 2417.06513362 : iteration 2742  
the risk is 2423.97558496 : iteration 2743  
the risk is 2424.54754018 : iteration 2744  
the risk is 2426.2971306 : iteration 2745  
the risk is 2422.75035435 : iteration 2746  
the risk is 2423.87137948 : iteration 2747  
the risk is 2420.40802042 : iteration 2748  
the risk is 2424.22721228 : iteration 2749  
the risk is 2426.43205929 : iteration 2750  
the risk is 2422.73414742 : iteration 2751  
the risk is 2430.88460519 : iteration 2752  
the risk is 2436.11215009 : iteration 2753  
the risk is 2438.69413224 : iteration 2754  
the risk is 2437.3937701 : iteration 2755  
the risk is 2434.25503357 : iteration 2756  
the risk is 2443.88543759 : iteration 2757  
the risk is 2441.59232574 : iteration 2758  
the risk is 2446.53780579 : iteration 2759  
the risk is 2457.20858375 : iteration 2760  
the risk is 2463.59146972 : iteration 2761  
the risk is 2456.89581555 : iteration 2762  
the risk is 2450.68933333 : iteration 2763  
the risk is 2446.11284005 : iteration 2764  
the risk is 2442.7015846 : iteration 2765  
the risk is 2453.55605104 : iteration 2766  
the risk is 2456.52876022 : iteration 2767  
the risk is 2470.85326835 : iteration 2768  
the risk is 2459.98333146 : iteration 2769  
the risk is 2450.21398215 : iteration 2770  
the risk is 2444.49931571 : iteration 2771  
the risk is 2440.94767422 : iteration 2772  
the risk is 2440.75241676 : iteration 2773  
the risk is 2450.48577956 : iteration 2774  
the risk is 2449.38675567 : iteration 2775  
the risk is 2448.25413499 : iteration 2776  
the risk is 2437.00991265 : iteration 2777  
the risk is 2433.22068253 : iteration 2778

the risk is 2431.42472229 : iteration 2779  
the risk is 2431.36327235 : iteration 2780  
the risk is 2428.5420864 : iteration 2781  
the risk is 2433.50157589 : iteration 2782  
the risk is 2424.69715589 : iteration 2783  
the risk is 2427.04947222 : iteration 2784  
the risk is 2421.33918378 : iteration 2785  
the risk is 2418.03934303 : iteration 2786  
the risk is 2417.93805024 : iteration 2787  
the risk is 2417.88492381 : iteration 2788  
the risk is 2416.63155712 : iteration 2789  
the risk is 2409.85237257 : iteration 2790  
the risk is 2410.29719308 : iteration 2791  
the risk is 2411.8934747 : iteration 2792  
the risk is 2408.79883957 : iteration 2793  
the risk is 2408.28424977 : iteration 2794  
the risk is 2413.69553266 : iteration 2795  
the risk is 2413.46693319 : iteration 2796  
the risk is 2413.38894635 : iteration 2797  
the risk is 2422.02977872 : iteration 2798  
the risk is 2418.6156716 : iteration 2799  
the risk is 2417.08219083 : iteration 2800  
the risk is 2416.99508887 : iteration 2801  
the risk is 2414.45200565 : iteration 2802  
the risk is 2412.45403336 : iteration 2803  
the risk is 2418.9430324 : iteration 2804  
the risk is 2417.0482543 : iteration 2805  
the risk is 2416.44269763 : iteration 2806  
the risk is 2414.9097208 : iteration 2807  
the risk is 2419.71288812 : iteration 2808  
the risk is 2418.50577555 : iteration 2809  
the risk is 2416.26159587 : iteration 2810  
the risk is 2420.87736148 : iteration 2811  
the risk is 2420.44380606 : iteration 2812  
the risk is 2420.48137389 : iteration 2813  
the risk is 2428.55910694 : iteration 2814  
the risk is 2426.83594301 : iteration 2815  
the risk is 2435.84769828 : iteration 2816  
the risk is 2431.17810701 : iteration 2817  
the risk is 2432.30143926 : iteration 2818  
the risk is 2431.37422438 : iteration 2819  
the risk is 2424.14789904 : iteration 2820  
the risk is 2424.01984454 : iteration 2821  
the risk is 2420.93165818 : iteration 2822  
the risk is 2417.52636209 : iteration 2823  
the risk is 2416.88717696 : iteration 2824  
the risk is 2413.87601227 : iteration 2825  
the risk is 2420.21036811 : iteration 2826  
the risk is 2414.51721748 : iteration 2827  
the risk is 2411.7448849 : iteration 2828  
the risk is 2411.90097312 : iteration 2829  
the risk is 2411.38921313 : iteration 2830  
the risk is 2411.30770586 : iteration 2831  
the risk is 2409.8340669 : iteration 2832



the risk is 2415.95119371 : iteration 2833  
the risk is 2413.0360993 : iteration 2834  
the risk is 2412.94969428 : iteration 2835  
the risk is 2409.35821804 : iteration 2836  
the risk is 2415.35241525 : iteration 2837  
the risk is 2414.76320112 : iteration 2838  
the risk is 2414.18789378 : iteration 2839  
the risk is 2413.62631279 : iteration 2840  
the risk is 2420.48862823 : iteration 2841  
the risk is 2419.97335024 : iteration 2842  
the risk is 2427.92811846 : iteration 2843  
the risk is 2432.51587955 : iteration 2844  
the risk is 2428.12396541 : iteration 2845  
the risk is 2424.75224348 : iteration 2846  
the risk is 2424.27067659 : iteration 2847  
the risk is 2432.86582143 : iteration 2848  
the risk is 2438.82943766 : iteration 2849  
the risk is 2429.47443791 : iteration 2850  
the risk is 2429.41600622 : iteration 2851  
the risk is 2428.53981332 : iteration 2852  
the risk is 2424.92907793 : iteration 2853  
the risk is 2424.51796028 : iteration 2854  
the risk is 2427.43726473 : iteration 2855  
the risk is 2421.85906536 : iteration 2856  
the risk is 2418.91957718 : iteration 2857  
the risk is 2416.49136038 : iteration 2858  
the risk is 2410.96615922 : iteration 2859  
the risk is 2410.18936559 : iteration 2860  
the risk is 2407.79765622 : iteration 2861  
the risk is 2409.92821473 : iteration 2862  
the risk is 2410.67350492 : iteration 2863  
the risk is 2417.17706765 : iteration 2864  
the risk is 2416.52299274 : iteration 2865  
the risk is 2413.46543726 : iteration 2866  
the risk is 2412.89272719 : iteration 2867  
the risk is 2412.67340071 : iteration 2868  
the risk is 2414.51377551 : iteration 2869  
the risk is 2414.46777691 : iteration 2870  
the risk is 2414.67274471 : iteration 2871  
the risk is 2413.34023562 : iteration 2872  
the risk is 2413.4474129 : iteration 2873  
the risk is 2415.54968348 : iteration 2874  
the risk is 2414.93161886 : iteration 2875  
the risk is 2408.50999923 : iteration 2876  
the risk is 2408.69016984 : iteration 2877  
the risk is 2414.77579587 : iteration 2878  
the risk is 2414.8770305 : iteration 2879  
the risk is 2419.68511851 : iteration 2880  
the risk is 2426.94626934 : iteration 2881  
the risk is 2426.24015159 : iteration 2882  
the risk is 2422.28173573 : iteration 2883  
the risk is 2422.04569856 : iteration 2884  
the risk is 2418.93169649 : iteration 2885  
the risk is 2418.69693519 : iteration 2886

the risk is 2420.7771513 : iteration 2887  
the risk is 2415.53839614 : iteration 2888  
the risk is 2414.91948872 : iteration 2889  
the risk is 2413.15168854 : iteration 2890  
the risk is 2412.31746082 : iteration 2891  
the risk is 2411.47288472 : iteration 2892  
the risk is 2410.94149233 : iteration 2893  
the risk is 2409.81966877 : iteration 2894  
the risk is 2409.66750257 : iteration 2895  
the risk is 2409.17825002 : iteration 2896  
the risk is 2409.31643612 : iteration 2897  
the risk is 2415.51970056 : iteration 2898  
the risk is 2424.8606824 : iteration 2899  
the risk is 2419.32270978 : iteration 2900  
the risk is 2412.03958914 : iteration 2901  
the risk is 2411.85444148 : iteration 2902  
the risk is 2418.9701042 : iteration 2903  
the risk is 2415.6423109 : iteration 2904  
the risk is 2415.30344781 : iteration 2905  
the risk is 2415.11179704 : iteration 2906  
the risk is 2414.49704506 : iteration 2907  
the risk is 2411.60031519 : iteration 2908  
the risk is 2410.40405557 : iteration 2909  
the risk is 2418.47545538 : iteration 2910  
the risk is 2426.39166024 : iteration 2911  
the risk is 2435.38764479 : iteration 2912  
the risk is 2435.11340289 : iteration 2913  
the risk is 2434.74895997 : iteration 2914  
the risk is 2444.70727812 : iteration 2915  
the risk is 2434.03723489 : iteration 2916  
the risk is 2429.65424199 : iteration 2917  
the risk is 2419.03631552 : iteration 2918  
the risk is 2418.32918608 : iteration 2919  
the risk is 2417.63698704 : iteration 2920  
the risk is 2416.07636147 : iteration 2921  
the risk is 2415.43001878 : iteration 2922  
the risk is 2416.06722367 : iteration 2923  
the risk is 2416.02637294 : iteration 2924  
the risk is 2423.52764074 : iteration 2925  
the risk is 2419.76735411 : iteration 2926  
the risk is 2417.71611664 : iteration 2927  
the risk is 2417.54699007 : iteration 2928  
the risk is 2418.10983433 : iteration 2929  
the risk is 2412.64515504 : iteration 2930  
the risk is 2411.33894775 : iteration 2931  
the risk is 2417.17768642 : iteration 2932  
the risk is 2416.48910406 : iteration 2933  
the risk is 2415.81517079 : iteration 2934  
the risk is 2415.40948041 : iteration 2935  
the risk is 2414.97747508 : iteration 2936  
the risk is 2422.43247313 : iteration 2937  
the risk is 2421.97186831 : iteration 2938  
the risk is 2421.81388314 : iteration 2939  
the risk is 2431.07936976 : iteration 2940

the risk is 2429.60143087 : iteration 2941  
the risk is 2427.53285882 : iteration 2942  
the risk is 2423.35364323 : iteration 2943  
the risk is 2419.75235234 : iteration 2944  
the risk is 2419.48813919 : iteration 2945  
the risk is 2417.85883396 : iteration 2946  
the risk is 2414.49463883 : iteration 2947  
the risk is 2413.17650331 : iteration 2948  
the risk is 2410.24113594 : iteration 2949  
the risk is 2416.93942796 : iteration 2950  
the risk is 2416.21127553 : iteration 2951  
the risk is 2416.86630005 : iteration 2952  
the risk is 2409.17671333 : iteration 2953  
the risk is 2407.24749062 : iteration 2954  
the risk is 2404.88023733 : iteration 2955  
the risk is 2404.81898513 : iteration 2956  
the risk is 2410.03863007 : iteration 2957  
the risk is 2409.86161456 : iteration 2958  
the risk is 2409.54605758 : iteration 2959  
the risk is 2416.14872827 : iteration 2960  
the risk is 2415.69529198 : iteration 2961  
the risk is 2413.56620474 : iteration 2962  
the risk is 2415.51641746 : iteration 2963  
the risk is 2419.82845595 : iteration 2964  
the risk is 2419.6439549 : iteration 2965  
the risk is 2428.51343689 : iteration 2966  
the risk is 2437.77922172 : iteration 2967  
the risk is 2437.22950612 : iteration 2968  
the risk is 2436.57884681 : iteration 2969  
the risk is 2434.28088179 : iteration 2970  
the risk is 2443.4464573 : iteration 2971  
the risk is 2441.52792111 : iteration 2972  
the risk is 2442.01642982 : iteration 2973  
the risk is 2441.13811444 : iteration 2974  
the risk is 2455.3439563 : iteration 2975  
the risk is 2451.50238283 : iteration 2976  
the risk is 2450.70326255 : iteration 2977  
the risk is 2461.71799249 : iteration 2978  
the risk is 2457.27277172 : iteration 2979  
the risk is 2452.51700299 : iteration 2980  
the risk is 2464.1280655 : iteration 2981  
the risk is 2466.0159925 : iteration 2982  
the risk is 2463.24002405 : iteration 2983  
the risk is 2450.68260093 : iteration 2984  
the risk is 2450.60558533 : iteration 2985  
the risk is 2459.62627533 : iteration 2986  
the risk is 2453.09335798 : iteration 2987  
the risk is 2448.02532118 : iteration 2988  
the risk is 2442.27437854 : iteration 2989  
the risk is 2435.01269662 : iteration 2990  
the risk is 2430.4355028 : iteration 2991  
the risk is 2429.47285065 : iteration 2992  
the risk is 2428.52795314 : iteration 2993  
the risk is 2424.20700617 : iteration 2994

```

the risk is 2421.23057353 : iteration 2995
the risk is 2418.74254936 : iteration 2996
the risk is 2415.20851453 : iteration 2997
the risk is 2412.41764359 : iteration 2998
the risk is 2412.59857607 : iteration 2999
the risk is 2411.97082038 : iteration 3000

```

```
In [457]: np.amin(training_risk_2)
```

```
Out[457]: 2404.8189851332536
```

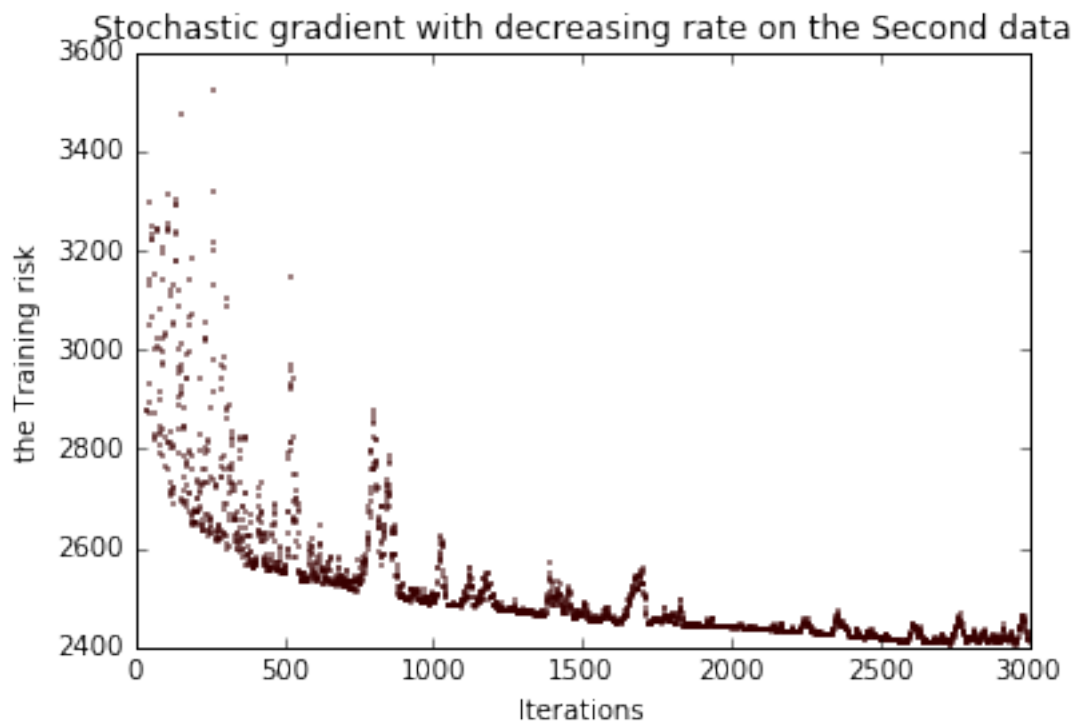
After 3000 iterations, the training risk decreases down to 2411.97082038 and the smallest risk we obtained is 2404.8189851332536. We plot the training risk over the number of iterations.

```

In [460]: xpos = np.arange(len(training_risk_2))+ 1

plt.plot(xpos, training_risk_2, 'ro', ms =1)
plt.xlabel('Iterations')
plt.ylabel('the Training risk')
plt.title('Stochastic gradient with decreasing rate on the Second data')
x1,x2,y1,y2 = plt.axis()
plt.axis((x1,x2,2400,3600))
plt.show()

```



We run the stochastic gradient descent with decreasing learning rate  $\frac{8}{t}$  at step  $t$  on the third preprocessed data.

```
In [473]: training_risk_3 =logistic_with_stochastic_gradient_decreasing_stepsize(w_0,sp_xtrain3,sp_ytra
```

the risk is 3584.95721786 : iteration 1  
the risk is 7630.11768245 : iteration 2  
the risk is 7632.57883964 : iteration 3  
the risk is 7634.56358585 : iteration 4  
the risk is 7686.37778253 : iteration 5  
the risk is 7754.55048236 : iteration 6  
the risk is 7755.60365454 : iteration 7  
the risk is 4867.83373023 : iteration 8  
the risk is 5108.06361153 : iteration 9  
the risk is 5109.29759209 : iteration 10  
the risk is 3928.76723755 : iteration 11  
the risk is 3993.73069164 : iteration 12  
the risk is 3998.25388454 : iteration 13  
the risk is 4046.87853921 : iteration 14  
the risk is 4056.59256502 : iteration 15  
the risk is 4057.69071289 : iteration 16  
the risk is 3638.55055255 : iteration 17  
the risk is 3639.86729894 : iteration 18  
the risk is 3675.36510593 : iteration 19  
the risk is 3676.41449269 : iteration 20  
the risk is 4122.11430793 : iteration 21  
the risk is 4200.39539916 : iteration 22  
the risk is 4232.40003714 : iteration 23  
the risk is 4262.45159182 : iteration 24  
the risk is 3597.43288372 : iteration 25  
the risk is 3630.37275309 : iteration 26  
the risk is 3416.90555764 : iteration 27  
the risk is 3231.67752292 : iteration 28  
the risk is 3067.06135222 : iteration 29  
the risk is 3068.01751595 : iteration 30  
the risk is 2837.21316484 : iteration 31  
the risk is 2861.54175094 : iteration 32  
the risk is 2882.57628875 : iteration 33  
the risk is 2884.26828219 : iteration 34  
the risk is 2828.53404188 : iteration 35  
the risk is 2796.81024109 : iteration 36  
the risk is 2797.53900777 : iteration 37  
the risk is 2732.19345743 : iteration 38  
the risk is 2732.61579409 : iteration 39  
the risk is 2731.71791174 : iteration 40  
the risk is 2731.69969785 : iteration 41  
the risk is 2697.96490653 : iteration 42  
the risk is 2701.75150852 : iteration 43  
the risk is 2691.7827796 : iteration 44  
the risk is 2685.52503714 : iteration 45  
the risk is 2682.24063911 : iteration 46  
the risk is 2682.9200891 : iteration 47  
the risk is 2677.89536187 : iteration 48  
the risk is 2682.55850291 : iteration 49  
the risk is 2679.22931728 : iteration 50  
the risk is 2670.30610646 : iteration 51  
the risk is 2671.0322023 : iteration 52  
the risk is 2671.6853807 : iteration 53  
the risk is 2671.95900081 : iteration 54

the risk is 2672.73460945 : iteration 55  
the risk is 2673.50013775 : iteration 56  
the risk is 2678.93574179 : iteration 57  
the risk is 2677.97689289 : iteration 58  
the risk is 2682.80461884 : iteration 59  
the risk is 2690.25010147 : iteration 60  
the risk is 2676.24700146 : iteration 61  
the risk is 2677.14309267 : iteration 62  
the risk is 2678.025757 : iteration 63  
the risk is 2682.51506646 : iteration 64  
the risk is 2688.1569014 : iteration 65  
the risk is 2696.18192392 : iteration 66  
the risk is 2745.08240541 : iteration 67  
the risk is 2758.33808392 : iteration 68  
the risk is 2762.44847708 : iteration 69  
the risk is 2804.67238393 : iteration 70  
the risk is 2820.54596722 : iteration 71  
the risk is 2780.45139417 : iteration 72  
the risk is 2781.41389181 : iteration 73  
the risk is 2782.13981816 : iteration 74  
the risk is 2752.44013748 : iteration 75  
the risk is 2753.3590022 : iteration 76  
the risk is 2732.86209559 : iteration 77  
the risk is 2733.73646819 : iteration 78  
the risk is 2740.37578616 : iteration 79  
the risk is 2747.222304 : iteration 80  
the risk is 2749.2147172 : iteration 81  
the risk is 2753.15560613 : iteration 82  
the risk is 2668.40179652 : iteration 83  
the risk is 2672.69405306 : iteration 84  
the risk is 2665.71072565 : iteration 85  
the risk is 2670.69093664 : iteration 86  
the risk is 2613.39520585 : iteration 87  
the risk is 2614.15274529 : iteration 88  
the risk is 2614.8771116 : iteration 89  
the risk is 2613.44275735 : iteration 90  
the risk is 2618.68835567 : iteration 91  
the risk is 2642.11820371 : iteration 92  
the risk is 2635.60911215 : iteration 93  
the risk is 2636.67068839 : iteration 94  
the risk is 2645.2407205 : iteration 95  
the risk is 2648.04488138 : iteration 96  
the risk is 2608.03918836 : iteration 97  
the risk is 2611.59196034 : iteration 98  
the risk is 2633.1899668 : iteration 99  
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the risk is 2313.96732484 : iteration 2631  
the risk is 2313.92507058 : iteration 2632  
the risk is 2313.9064773 : iteration 2633  
the risk is 2313.88291845 : iteration 2634  
the risk is 2313.77198732 : iteration 2635  
the risk is 2313.74389265 : iteration 2636  
the risk is 2313.70931954 : iteration 2637  
the risk is 2313.87740618 : iteration 2638  
the risk is 2313.89713923 : iteration 2639  
the risk is 2313.90715658 : iteration 2640  
the risk is 2313.9003123 : iteration 2641  
the risk is 2313.91806536 : iteration 2642  
the risk is 2313.95156381 : iteration 2643  
the risk is 2313.9715147 : iteration 2644  
the risk is 2313.99919659 : iteration 2645  
the risk is 2314.01203705 : iteration 2646

the risk is 2313.95878913 : iteration 2647  
the risk is 2313.97972564 : iteration 2648  
the risk is 2314.00042403 : iteration 2649  
the risk is 2314.01845652 : iteration 2650  
the risk is 2314.12858565 : iteration 2651  
the risk is 2313.62139753 : iteration 2652  
the risk is 2313.0076192 : iteration 2653  
the risk is 2312.98474523 : iteration 2654  
the risk is 2313.00571498 : iteration 2655  
the risk is 2313.02329081 : iteration 2656  
the risk is 2313.04222828 : iteration 2657  
the risk is 2313.06168374 : iteration 2658  
the risk is 2313.08204733 : iteration 2659  
the risk is 2313.05779264 : iteration 2660  
the risk is 2313.07821082 : iteration 2661  
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the risk is 2312.74307832 : iteration 2663  
the risk is 2312.72121667 : iteration 2664  
the risk is 2312.72910431 : iteration 2665  
the risk is 2312.43045079 : iteration 2666  
the risk is 2312.47873161 : iteration 2667  
the risk is 2312.44973064 : iteration 2668  
the risk is 2312.43419643 : iteration 2669  
the risk is 2312.39016788 : iteration 2670  
the risk is 2312.40006353 : iteration 2671  
the risk is 2312.397052 : iteration 2672  
the risk is 2312.42592366 : iteration 2673  
the risk is 2312.3967492 : iteration 2674  
the risk is 2312.41656766 : iteration 2675  
the risk is 2312.43639613 : iteration 2676  
the risk is 2312.45423647 : iteration 2677  
the risk is 2311.85124391 : iteration 2678  
the risk is 2311.82736357 : iteration 2679  
the risk is 2311.08863295 : iteration 2680  
the risk is 2311.12521887 : iteration 2681  
the risk is 2311.0921229 : iteration 2682  
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the risk is 2311.09082849 : iteration 2684  
the risk is 2311.09510682 : iteration 2685  
the risk is 2311.10948616 : iteration 2686  
the risk is 2311.07483118 : iteration 2687  
the risk is 2311.08842962 : iteration 2688  
the risk is 2310.74918627 : iteration 2689  
the risk is 2310.26876187 : iteration 2690  
the risk is 2310.27826396 : iteration 2691  
the risk is 2310.28828863 : iteration 2692  
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the risk is 2310.31730987 : iteration 2694  
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the risk is 2310.30466204 : iteration 2696  
the risk is 2309.74682495 : iteration 2697  
the risk is 2309.77481042 : iteration 2698  
the risk is 2309.7782831 : iteration 2699  
the risk is 2309.76421692 : iteration 2700

the risk is 2309.76348396 : iteration 2701  
the risk is 2309.73613486 : iteration 2702  
the risk is 2309.73590717 : iteration 2703  
the risk is 2309.76723825 : iteration 2704  
the risk is 2309.78351147 : iteration 2705  
the risk is 2309.77824363 : iteration 2706  
the risk is 2309.79281829 : iteration 2707  
the risk is 2309.76147202 : iteration 2708  
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the risk is 2309.74447933 : iteration 2711  
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the risk is 2309.72352277 : iteration 2713  
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the risk is 2309.45101281 : iteration 2715  
the risk is 2309.29478583 : iteration 2716  
the risk is 2309.30458118 : iteration 2717  
the risk is 2309.28135418 : iteration 2718  
the risk is 2309.23458552 : iteration 2719  
the risk is 2309.24064317 : iteration 2720  
the risk is 2309.25009075 : iteration 2721  
the risk is 2309.26331296 : iteration 2722  
the risk is 2309.28857428 : iteration 2723  
the risk is 2309.2865377 : iteration 2724  
the risk is 2309.29198068 : iteration 2725  
the risk is 2309.23091733 : iteration 2726  
the risk is 2309.24029555 : iteration 2727  
the risk is 2309.2589554 : iteration 2728  
the risk is 2309.22201321 : iteration 2729  
the risk is 2309.2166756 : iteration 2730  
the risk is 2309.23548425 : iteration 2731  
the risk is 2309.24858897 : iteration 2732  
the risk is 2309.25126763 : iteration 2733  
the risk is 2309.22138628 : iteration 2734  
the risk is 2309.18766404 : iteration 2735  
the risk is 2309.15966683 : iteration 2736  
the risk is 2309.14672529 : iteration 2737  
the risk is 2309.11677942 : iteration 2738  
the risk is 2309.04502465 : iteration 2739  
the risk is 2309.01811956 : iteration 2740  
the risk is 2309.03705144 : iteration 2741  
the risk is 2309.01301932 : iteration 2742  
the risk is 2308.78634306 : iteration 2743  
the risk is 2308.77978802 : iteration 2744  
the risk is 2308.60408164 : iteration 2745  
the risk is 2308.61122767 : iteration 2746  
the risk is 2308.65393223 : iteration 2747  
the risk is 2308.65954081 : iteration 2748  
the risk is 2308.44914621 : iteration 2749  
the risk is 2308.45893088 : iteration 2750  
the risk is 2308.46270537 : iteration 2751  
the risk is 2308.45438522 : iteration 2752  
the risk is 2308.19968662 : iteration 2753  
the risk is 2308.21213085 : iteration 2754

the risk is 2308.17611619 : iteration 2755  
the risk is 2308.14284726 : iteration 2756  
the risk is 2308.14051989 : iteration 2757  
the risk is 2308.10281494 : iteration 2758  
the risk is 2307.99064244 : iteration 2759  
the risk is 2307.96479052 : iteration 2760  
the risk is 2307.90232521 : iteration 2761  
the risk is 2307.89947747 : iteration 2762  
the risk is 2307.89715132 : iteration 2763  
the risk is 2307.88305931 : iteration 2764  
the risk is 2307.8546463 : iteration 2765  
the risk is 2307.85927246 : iteration 2766  
the risk is 2307.8754967 : iteration 2767  
the risk is 2307.6233681 : iteration 2768  
the risk is 2307.64822052 : iteration 2769  
the risk is 2307.67497991 : iteration 2770  
the risk is 2307.67138951 : iteration 2771  
the risk is 2307.62302014 : iteration 2772  
the risk is 2307.62310118 : iteration 2773  
the risk is 2307.56039896 : iteration 2774  
the risk is 2307.58175871 : iteration 2775  
the risk is 2307.59713167 : iteration 2776  
the risk is 2307.66718879 : iteration 2777  
the risk is 2307.65225077 : iteration 2778  
the risk is 2307.61603459 : iteration 2779  
the risk is 2307.61394511 : iteration 2780  
the risk is 2307.57956714 : iteration 2781  
the risk is 2307.35626218 : iteration 2782  
the risk is 2307.43846615 : iteration 2783  
the risk is 2307.26998344 : iteration 2784  
the risk is 2307.33087195 : iteration 2785  
the risk is 2307.32901875 : iteration 2786  
the risk is 2307.33153429 : iteration 2787  
the risk is 2307.33465558 : iteration 2788  
the risk is 2307.29910848 : iteration 2789  
the risk is 2307.24640159 : iteration 2790  
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the risk is 2307.00705122 : iteration 2792  
the risk is 2306.97120643 : iteration 2793  
the risk is 2306.93582463 : iteration 2794  
the risk is 2306.93811226 : iteration 2795  
the risk is 2306.94059659 : iteration 2796  
the risk is 2306.94897123 : iteration 2797  
the risk is 2306.64280024 : iteration 2798  
the risk is 2306.63960992 : iteration 2799  
the risk is 2306.59575556 : iteration 2800  
the risk is 2306.59615053 : iteration 2801  
the risk is 2306.58192498 : iteration 2802  
the risk is 2306.55363496 : iteration 2803  
the risk is 2306.55936415 : iteration 2804  
the risk is 2306.5231525 : iteration 2805  
the risk is 2306.53843264 : iteration 2806  
the risk is 2306.7374876 : iteration 2807  
the risk is 2306.5693514 : iteration 2808



the risk is 2306.53694024 : iteration 2809  
the risk is 2306.48932548 : iteration 2810  
the risk is 2306.08317346 : iteration 2811  
the risk is 2306.09822053 : iteration 2812  
the risk is 2306.09575697 : iteration 2813  
the risk is 2306.10599361 : iteration 2814  
the risk is 2306.06689665 : iteration 2815  
the risk is 2306.07952266 : iteration 2816  
the risk is 2306.07395532 : iteration 2817  
the risk is 2306.07621422 : iteration 2818  
the risk is 2306.09086845 : iteration 2819  
the risk is 2305.88613473 : iteration 2820  
the risk is 2305.88747826 : iteration 2821  
the risk is 2305.87458786 : iteration 2822  
the risk is 2305.87137515 : iteration 2823  
the risk is 2305.88650125 : iteration 2824  
the risk is 2305.88388977 : iteration 2825  
the risk is 2305.8212009 : iteration 2826  
the risk is 2305.8493311 : iteration 2827  
the risk is 2305.84698707 : iteration 2828  
the risk is 2305.76791941 : iteration 2829  
the risk is 2305.78305975 : iteration 2830  
the risk is 2305.78376194 : iteration 2831  
the risk is 2305.74826906 : iteration 2832  
the risk is 2305.75512753 : iteration 2833  
the risk is 2305.75195328 : iteration 2834  
the risk is 2305.75797586 : iteration 2835  
the risk is 2305.84138529 : iteration 2836  
the risk is 2305.84660967 : iteration 2837  
the risk is 2305.86173281 : iteration 2838  
the risk is 2305.87686919 : iteration 2839  
the risk is 2305.89201877 : iteration 2840  
the risk is 2305.89940898 : iteration 2841  
the risk is 2305.90787352 : iteration 2842  
the risk is 2305.91796367 : iteration 2843  
the risk is 2305.85267979 : iteration 2844  
the risk is 2305.84750428 : iteration 2845  
the risk is 2305.83145409 : iteration 2846  
the risk is 2305.84621082 : iteration 2847  
the risk is 2305.85831828 : iteration 2848  
the risk is 2305.81817177 : iteration 2849  
the risk is 2305.80580068 : iteration 2850  
the risk is 2305.8051511 : iteration 2851  
the risk is 2305.81990849 : iteration 2852  
the risk is 2305.77528639 : iteration 2853  
the risk is 2305.77750534 : iteration 2854  
the risk is 2305.55319875 : iteration 2855  
the risk is 2305.55111932 : iteration 2856  
the risk is 2305.54810065 : iteration 2857  
the risk is 2305.51891144 : iteration 2858  
the risk is 2305.39550936 : iteration 2859  
the risk is 2305.36420723 : iteration 2860  
the risk is 2305.36287324 : iteration 2861  
the risk is 2304.92828638 : iteration 2862

the risk is 2304.94432633 : iteration 2863  
the risk is 2304.95412902 : iteration 2864  
the risk is 2304.96878958 : iteration 2865  
the risk is 2304.97670478 : iteration 2866  
the risk is 2304.9914687 : iteration 2867  
the risk is 2304.99365756 : iteration 2868  
the risk is 2305.0104579 : iteration 2869  
the risk is 2305.01055173 : iteration 2870  
the risk is 2305.01201317 : iteration 2871  
the risk is 2304.97457933 : iteration 2872  
the risk is 2304.97596687 : iteration 2873  
the risk is 2304.76447847 : iteration 2874  
the risk is 2304.77881961 : iteration 2875  
the risk is 2304.77153864 : iteration 2876  
the risk is 2304.76967081 : iteration 2877  
the risk is 2304.78018513 : iteration 2878  
the risk is 2304.76935265 : iteration 2879  
the risk is 2304.61253363 : iteration 2880  
the risk is 2304.51608674 : iteration 2881  
the risk is 2304.52644509 : iteration 2882  
the risk is 2304.51872083 : iteration 2883  
the risk is 2304.53271442 : iteration 2884  
the risk is 2304.51419553 : iteration 2885  
the risk is 2304.5145638 : iteration 2886  
the risk is 2304.53461734 : iteration 2887  
the risk is 2304.60488776 : iteration 2888  
the risk is 2304.61905351 : iteration 2889  
the risk is 2304.58189625 : iteration 2890  
the risk is 2304.5509849 : iteration 2891  
the risk is 2304.52164725 : iteration 2892  
the risk is 2304.53591627 : iteration 2893  
the risk is 2304.49928368 : iteration 2894  
the risk is 2304.51154201 : iteration 2895  
the risk is 2304.52588453 : iteration 2896  
the risk is 2304.52765741 : iteration 2897  
the risk is 2304.54193041 : iteration 2898  
the risk is 2304.27243452 : iteration 2899  
the risk is 2304.32818556 : iteration 2900  
the risk is 2304.2911838 : iteration 2901  
the risk is 2304.28991265 : iteration 2902  
the risk is 2304.3509897 : iteration 2903  
the risk is 2304.3440932 : iteration 2904  
the risk is 2304.39102279 : iteration 2905  
the risk is 2304.41897043 : iteration 2906  
the risk is 2304.43321916 : iteration 2907  
the risk is 2304.42783815 : iteration 2908  
the risk is 2304.38528982 : iteration 2909  
the risk is 2304.01446135 : iteration 2910  
the risk is 2304.03211892 : iteration 2911  
the risk is 2304.05251128 : iteration 2912  
the risk is 2304.07085067 : iteration 2913  
the risk is 2304.07116529 : iteration 2914  
the risk is 2304.09386327 : iteration 2915  
the risk is 2304.27628113 : iteration 2916

the risk is 2304.26732628 : iteration 2917  
the risk is 2304.19507019 : iteration 2918  
the risk is 2304.20924914 : iteration 2919  
the risk is 2304.22344152 : iteration 2920  
the risk is 2304.18536613 : iteration 2921  
the risk is 2304.19960604 : iteration 2922  
the risk is 2304.20130444 : iteration 2923  
the risk is 2304.2000079 : iteration 2924  
the risk is 2304.21519161 : iteration 2925  
the risk is 2304.20855209 : iteration 2926  
the risk is 2304.18236437 : iteration 2927  
the risk is 2304.18145629 : iteration 2928  
the risk is 2303.99599211 : iteration 2929  
the risk is 2304.03517269 : iteration 2930  
the risk is 2303.97915604 : iteration 2931  
the risk is 2303.46111809 : iteration 2932  
the risk is 2303.47473075 : iteration 2933  
the risk is 2303.48835722 : iteration 2934  
the risk is 2303.50199747 : iteration 2935  
the risk is 2303.51068496 : iteration 2936  
the risk is 2303.53163447 : iteration 2937  
the risk is 2303.53436685 : iteration 2938  
the risk is 2303.53594789 : iteration 2939  
the risk is 2303.39972786 : iteration 2940  
the risk is 2303.36207237 : iteration 2941  
the risk is 2303.32500579 : iteration 2942  
the risk is 2303.31489184 : iteration 2943  
the risk is 2303.30418582 : iteration 2944  
the risk is 2303.30688544 : iteration 2945  
the risk is 2303.26780862 : iteration 2946  
the risk is 2303.25900892 : iteration 2947  
the risk is 2303.22245028 : iteration 2948  
the risk is 2303.21430399 : iteration 2949  
the risk is 2303.23466017 : iteration 2950  
the risk is 2303.24375389 : iteration 2951  
the risk is 2303.24812875 : iteration 2952  
the risk is 2303.06412169 : iteration 2953  
the risk is 2303.033293 : iteration 2954  
the risk is 2303.02616878 : iteration 2955  
the risk is 2303.02394286 : iteration 2956  
the risk is 2303.03022138 : iteration 2957  
the risk is 2303.04931638 : iteration 2958  
the risk is 2303.0629241 : iteration 2959  
the risk is 2303.08291171 : iteration 2960  
the risk is 2303.08820354 : iteration 2961  
the risk is 2303.07062389 : iteration 2962  
the risk is 2303.09084507 : iteration 2963  
the risk is 2302.91300529 : iteration 2964  
the risk is 2302.91173632 : iteration 2965  
the risk is 2303.02780563 : iteration 2966  
the risk is 2303.05768185 : iteration 2967  
the risk is 2303.05882483 : iteration 2968  
the risk is 2303.10313593 : iteration 2969  
the risk is 2303.06324209 : iteration 2970

```

the risk is 2302.62544852 : iteration 2971
the risk is 2302.58945269 : iteration 2972
the risk is 2302.58648492 : iteration 2973
the risk is 2302.57391052 : iteration 2974
the risk is 2302.25005454 : iteration 2975
the risk is 2302.31946634 : iteration 2976
the risk is 2302.32903285 : iteration 2977
the risk is 2302.35492851 : iteration 2978
the risk is 2302.31174504 : iteration 2979
the risk is 2302.27500694 : iteration 2980
the risk is 2302.31435114 : iteration 2981
the risk is 2302.19095506 : iteration 2982
the risk is 2302.26699555 : iteration 2983
the risk is 2302.15816727 : iteration 2984
the risk is 2302.15528497 : iteration 2985
the risk is 2301.85693878 : iteration 2986
the risk is 2301.84030531 : iteration 2987
the risk is 2301.88186747 : iteration 2988
the risk is 2301.86694427 : iteration 2989
the risk is 2301.93227755 : iteration 2990
the risk is 2301.91759511 : iteration 2991
the risk is 2301.93009355 : iteration 2992
the risk is 2301.94260635 : iteration 2993
the risk is 2301.93036143 : iteration 2994
the risk is 2301.896843 : iteration 2995
the risk is 2301.85756132 : iteration 2996
the risk is 2301.84642162 : iteration 2997
the risk is 2301.82495288 : iteration 2998
the risk is 2301.82008546 : iteration 2999
the risk is 2301.83293867 : iteration 3000

```

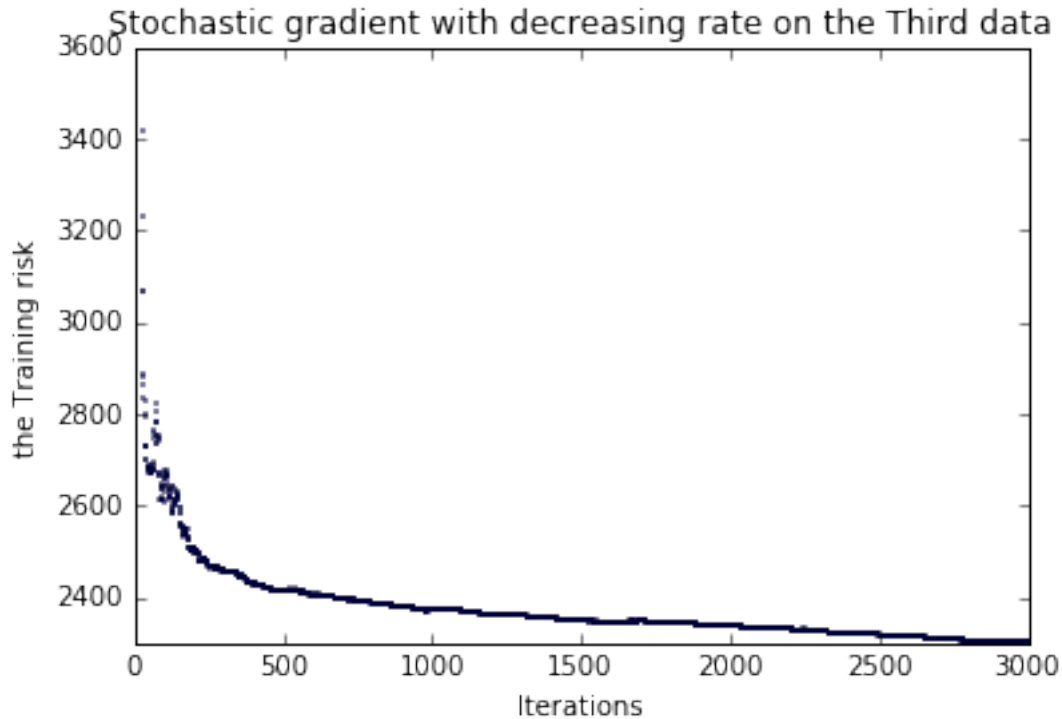
After 3000 iterations, the training risk decreases down to 2301. We plot the training risk over the number of iterations.

```

In [474]: xpos = np.arange(len(training_risk_3))+ 1

plt.plot(xpos, training_risk_3, 'bo', ms =1)
plt.xlabel('Iterations')
plt.ylabel('the Training risk')
plt.title('Stochastic gradient with decreasing rate on the Third data')
x1,x2,y1,y2 = plt.axis()
plt.axis((x1,x2,2300,3600))
plt.show()

```



**Is this strategy better than having a constant  $\epsilon$ ?** With the constant step size (learning rate), the stochastic gradient produces lower training risk after the same number of iterations. This could be predictable in that the step size gets too small too fast when we use decreasing learning rates and therefore could not approach to the minimum as much as the stochastic gradient descent with constant step size does. It is worth to mention that the graph of training risk is much smoother curve with decreasing learning rate than with constant learning rate.

**kernel logistic regression with a polynomial kernel of degree 2**

```
In [19]: nr.seed(0)
         valid = nr.choice(sp_xtrain3.shape[0], sp_xtrain3.shape[0]//3, replace=False)
         sp_xvalid = sp_xtrain3[valid, ]
         sp_xtrain0 = sp_xtrain3[np.array([i not in valid for i in np.arange(sp_xtrain3.shape[0])]) ,:]
         sp_yvalid = sp_ytrain[valid]
         sp_ytrain0 = sp_ytrain[np.array([i not in valid for i in np.arange(sp_xtrain3.shape[0])])]
```

```
In [45]: sp_xtrain0.shape
         sp_xvalid.shape
```

```
Out[45]: (1724, 33)
```

```
In [12]: def quadratic_K(rho, X_train, X_test):
         return np.square(np.dot(X_train, np.transpose(X_test))) + rho)
```

```
In [13]: kf_ = KFold(3448, n_folds=10)
```

```
In [10]: # Risk function
         def R_(a, y_test, K):
```

```

temp = np.dot(K,a)
one = np.linspace(1,1, len(y_test))
return np.dot(np.transpose(1- y_test),temp) + np.dot(one, np.log(1+ np.exp(-temp)))

def stochastic_gradient_kernel(a,X,y, rho,e, lamda,n, K_):
    K__ = K_(rho,X, X)
    a_temp = a
    risk = []
    nr.seed(0)
    indice = nr.choice(X.shape[0], n, replace = True)
    for i in np.arange(n):
        # risk_temp = R_(a_temp, X, y, K)
        j = indice[i]
        # print ('the risk is ', risk_temp, ': iteration ', (i+1))
        b = lamda * a_temp
        b[j] = b[j] - y[j] + s(np.dot(K__[j,], a_temp))
        a_temp = a_temp - e * b
        # risk = risk + [risk_temp]
    return a_temp

def tenfold_cv_(rho, e, lamda, n, K_):
    R = 0
    for train_index, test_index in kf_:
        X_train, X_test = sp_xtrain0[train_index, :], sp_xtrain0[test_index, :]
        y_train, y_test = sp_ytrain0[train_index], sp_ytrain0[test_index]
        a0 = np.zeros(X_train.shape[0])
        a = stochastic_gradient_kernel(a0,X_train,y_train, rho,e, lamda,n, K_)
        temp = np.dot(a, np.square( np.dot(X_train, np.transpose(X_test))+ rho))
        one = np.linspace(1,1, len(y_test))
        R = R + np.dot(np.transpose(1- y_test),temp) + np.dot(one, np.log(1+ np.exp(-temp)))
    return R/10

```

In [94]: tenfold\_cv\_(0, 1e-5, 1e-3, 500, quadratic\_K)

Out[94]: 238.81979676288202

In [95]: tenfold\_cv\_(1e-3, 1e-5, 1e-3, 500, quadratic\_K)

Out[95]: 238.81964581654387

In [96]: tenfold\_cv\_(1e-1, 1e-5, 1e-3, 500, quadratic\_K)

Out[96]: 238.80433972893556

In [97]: tenfold\_cv\_(1e-2, 1e-5, 1e-3, 500, quadratic\_K)

Out[97]: 238.81828400128205

In [98]: tenfold\_cv\_(1, 1e-5, 1e-3, 500, quadratic\_K)

Out[98]: 238.6327606396122

In [99]: tenfold\_cv\_(10, 1e-5, 1e-3, 500, quadratic\_K)

Out[99]: 234.76740849818816

In [100]: tenfold\_cv\_(20, 1e-5, 1e-3, 500, quadratic\_K)

```
Out[100]: 232.1178878996912
```

```
In [101]: tenfold_cv_(30, 1e-5, 1e-3, 500, quadratic_K)
```

```
Out[101]: 235.93093307801436
```

```
In [102]: tenfold_cv_(18, 1e-5, 1e-3, 500, quadratic_K)
```

```
Out[102]: 232.13978447133462
```

```
In [103]: tenfold_cv_(19, 1e-5, 1e-3, 500, quadratic_K)
```

```
Out[103]: 232.09213791761448
```

10-fold cross validation shows that average training risk is the lowest when  $\rho = 19$ .

```
In [11]: def stochastic_gradient_kernel_print(X_train, X_test, y_train, y_test, rho, e, lamda, n, K_):
    K1 = K_(rho, X_train, X_train)
    K2 = K_(rho, X_train, X_test)
    risk = []
    nr.seed(0)
    indice = nr.choice(X_train.shape[0], n, replace = True)
    a0 = np.zeros(X_train.shape[0])
    temp = np.dot(a0, K2)
    one = np.linspace(1, 1, len(y_test))
    a_temp = a0
    for i in np.arange(n):
        risk_temp = np.dot(np.transpose(1- y_test), temp) + np.dot(one, np.log(1+ np.exp(-temp)))
        j = indice[i]
        print ('the risk is ', risk_temp, ': iteration ', (i+1))
        b = lamda * a_temp
        diff = y_train[j] - s(np.dot(a_temp, K1[j, ]))
        b[j] = b[j] - diff
        a_temp = a_temp - e * b
        temp = (1-e * lamda) * temp + e * diff * K2[j, ]
        risk = risk + [risk_temp]
    return [risk, a_temp]
```

```
In [87]: training_risk_kernel = stochastic_gradient_kernel_print(sp_xtrain0, sp_xtrain0,
                                                                sp_ytrain0, sp_ytrain0, 19, 1e-5, 1e-3,
```

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the risk is 2389.97147857 : iteration 1
the risk is 2388.50723823 : iteration 2
the risk is 2386.91925433 : iteration 3
the risk is 2385.37438057 : iteration 4
the risk is 2383.98065696 : iteration 5
the risk is 2385.3855362 : iteration 6
the risk is 2386.7790168 : iteration 7
the risk is 2385.25283763 : iteration 8
the risk is 2383.78251136 : iteration 9
the risk is 2382.38667382 : iteration 10
the risk is 2383.79471226 : iteration 11
the risk is 2382.27707668 : iteration 12
the risk is 2380.88604362 : iteration 13
the risk is 2379.4186275 : iteration 14
the risk is 2378.00834721 : iteration 15
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the risk is 2376.59352589 : iteration 16  
the risk is 2375.13283161 : iteration 17  
the risk is 2376.61721177 : iteration 18  
the risk is 2375.10990181 : iteration 19  
the risk is 2373.63930693 : iteration 20  
the risk is 2372.15329152 : iteration 21  
the risk is 2370.79617213 : iteration 22  
the risk is 2369.43802987 : iteration 23  
the risk is 2370.82710402 : iteration 24  
the risk is 2369.39522988 : iteration 25  
the risk is 2368.04754383 : iteration 26  
the risk is 2366.62578524 : iteration 27  
the risk is 2365.28760753 : iteration 28  
the risk is 2363.783362 : iteration 29  
the risk is 2365.15957043 : iteration 30  
the risk is 2366.53575594 : iteration 31  
the risk is 2365.1975032 : iteration 32  
the risk is 2363.8639227 : iteration 33  
the risk is 2362.47182281 : iteration 34  
the risk is 2361.14530893 : iteration 35  
the risk is 2362.55638372 : iteration 36  
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the risk is 2359.72791694 : iteration 46  
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the risk is 2359.86506141 : iteration 52  
the risk is 2361.23954 : iteration 53  
the risk is 2359.8905449 : iteration 54  
the risk is 2358.49702417 : iteration 55  
the risk is 2357.18524063 : iteration 56  
the risk is 2355.79543782 : iteration 57  
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the risk is 2355.84156794 : iteration 59  
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the risk is 2350.61586671 : iteration 65  
the risk is 2352.07354136 : iteration 66  
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the risk is 2351.98020155 : iteration 68  
the risk is 2350.71120414 : iteration 69



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the risk is 1733.71237317 : iteration 29588  
the risk is 1733.67511674 : iteration 29589  
the risk is 1733.63656345 : iteration 29590  
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the risk is 1733.65974061 : iteration 29592  
the risk is 1733.72984242 : iteration 29593  
the risk is 1733.69125892 : iteration 29594  
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the risk is 1733.6103464 : iteration 29596  
the risk is 1733.64112799 : iteration 29597  
the risk is 1733.60345723 : iteration 29598  
the risk is 1733.67866287 : iteration 29599  
the risk is 1733.64660972 : iteration 29600  
the risk is 1733.60778441 : iteration 29601  
the risk is 1733.57002778 : iteration 29602  
the risk is 1733.65721277 : iteration 29603  
the risk is 1733.61406688 : iteration 29604  
the risk is 1733.64703503 : iteration 29605  
the risk is 1733.68017155 : iteration 29606  
the risk is 1733.81653704 : iteration 29607

the risk is 1733.77309339 : iteration 29608  
the risk is 1733.88634619 : iteration 29609  
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the risk is 1733.79710601 : iteration 29611  
the risk is 1733.85697568 : iteration 29612  
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the risk is 1733.76585793 : iteration 29614  
the risk is 1733.86149519 : iteration 29615  
the risk is 1733.96104124 : iteration 29616  
the risk is 1734.06748985 : iteration 29617  
the risk is 1734.01816486 : iteration 29618  
the risk is 1734.12229946 : iteration 29619  
the risk is 1734.05978251 : iteration 29620  
the risk is 1734.01080649 : iteration 29621  
the risk is 1733.95477661 : iteration 29622  
the risk is 1733.90463398 : iteration 29623  
the risk is 1733.86012526 : iteration 29624  
the risk is 1733.91403982 : iteration 29625  
the risk is 1733.86693576 : iteration 29626  
the risk is 1733.81996936 : iteration 29627  
the risk is 1733.77219606 : iteration 29628  
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the risk is 1733.89554089 : iteration 29632  
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the risk is 1734.05676931 : iteration 29635  
the risk is 1734.00346303 : iteration 29636  
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the risk is 1734.09051101 : iteration 29641  
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the risk is 1733.90039142 : iteration 29645  
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the risk is 1734.0706104 : iteration 29647  
the risk is 1734.01625073 : iteration 29648  
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the risk is 1733.98135385 : iteration 29651  
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the risk is 1733.87852267 : iteration 29653  
the risk is 1733.83469251 : iteration 29654  
the risk is 1733.90788347 : iteration 29655  
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the risk is 1733.95990901 : iteration 29657  
the risk is 1734.09957512 : iteration 29658  
the risk is 1734.05341256 : iteration 29659  
the risk is 1733.99430252 : iteration 29660  
the risk is 1733.93415006 : iteration 29661

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the risk is 1733.41037588 : iteration 29684  
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the risk is 1733.31640177 : iteration 29686  
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the risk is 1733.25774293 : iteration 29693  
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the risk is 1733.18309384 : iteration 29700  
the risk is 1733.14052483 : iteration 29701  
the risk is 1733.09962356 : iteration 29702  
the risk is 1733.06695654 : iteration 29703  
the risk is 1733.03531402 : iteration 29704  
the risk is 1732.99363763 : iteration 29705  
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the risk is 1732.93888137 : iteration 29715

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the risk is 1732.92545863 : iteration 29718  
the risk is 1732.9623115 : iteration 29719  
the risk is 1733.05647 : iteration 29720  
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the risk is 1733.27880806 : iteration 29722  
the risk is 1733.31697681 : iteration 29723  
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the risk is 1733.37922708 : iteration 29728  
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the risk is 1733.55326968 : iteration 29745  
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the risk is 1733.68248946 : iteration 29753  
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the risk is 1733.5608877 : iteration 29755  
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the risk is 1733.39485907 : iteration 29758  
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the risk is 1733.58046491 : iteration 29768  
the risk is 1733.72010714 : iteration 29769

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the risk is 1733.89503126 : iteration 29772  
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the risk is 1734.14779805 : iteration 29775  
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the risk is 1734.65849206 : iteration 29796  
the risk is 1734.76359343 : iteration 29797  
the risk is 1734.66541111 : iteration 29798  
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the risk is 1734.77364327 : iteration 29800  
the risk is 1734.67393347 : iteration 29801  
the risk is 1734.75693942 : iteration 29802  
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the risk is 1735.13804437 : iteration 29804  
the risk is 1735.0770546 : iteration 29805  
the risk is 1734.96351977 : iteration 29806  
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the risk is 1734.84098096 : iteration 29808  
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the risk is 1734.71055975 : iteration 29810  
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the risk is 1734.54984402 : iteration 29812  
the risk is 1734.47481424 : iteration 29813  
the risk is 1734.41399918 : iteration 29814  
the risk is 1734.33228776 : iteration 29815  
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the risk is 1734.23567442 : iteration 29821  
the risk is 1734.16359104 : iteration 29822  
the risk is 1734.24983049 : iteration 29823

the risk is 1734.18833284 : iteration 29824  
the risk is 1734.09983614 : iteration 29825  
the risk is 1734.20200644 : iteration 29826  
the risk is 1734.11785619 : iteration 29827  
the risk is 1734.05900633 : iteration 29828  
the risk is 1734.16402903 : iteration 29829  
the risk is 1734.12026858 : iteration 29830  
the risk is 1734.20850431 : iteration 29831  
the risk is 1734.15041105 : iteration 29832  
the risk is 1734.0655693 : iteration 29833  
the risk is 1734.22748322 : iteration 29834  
the risk is 1734.14405727 : iteration 29835  
the risk is 1734.06182785 : iteration 29836  
the risk is 1733.98079149 : iteration 29837  
the risk is 1734.08639347 : iteration 29838  
the risk is 1734.00454143 : iteration 29839  
the risk is 1734.11139641 : iteration 29840  
the risk is 1734.00376155 : iteration 29841  
the risk is 1733.92329688 : iteration 29842  
the risk is 1733.85224406 : iteration 29843  
the risk is 1733.79119195 : iteration 29844  
the risk is 1733.72151865 : iteration 29845  
the risk is 1733.64917483 : iteration 29846  
the risk is 1733.57587897 : iteration 29847  
the risk is 1733.79071663 : iteration 29848  
the risk is 1733.94665245 : iteration 29849  
the risk is 1733.87421292 : iteration 29850  
the risk is 1733.97838857 : iteration 29851  
the risk is 1733.90462808 : iteration 29852  
the risk is 1733.98691263 : iteration 29853  
the risk is 1733.92960443 : iteration 29854  
the risk is 1733.85607687 : iteration 29855  
the risk is 1733.76936348 : iteration 29856  
the risk is 1733.87317264 : iteration 29857  
the risk is 1733.788533 : iteration 29858  
the risk is 1733.70968164 : iteration 29859  
the risk is 1733.64274174 : iteration 29860  
the risk is 1733.73279623 : iteration 29861  
the risk is 1733.66173096 : iteration 29862  
the risk is 1733.58390391 : iteration 29863  
the risk is 1733.48900683 : iteration 29864  
the risk is 1733.58793593 : iteration 29865  
the risk is 1733.52411666 : iteration 29866  
the risk is 1733.45836526 : iteration 29867  
the risk is 1733.53485268 : iteration 29868  
the risk is 1733.46334544 : iteration 29869  
the risk is 1733.39396554 : iteration 29870  
the risk is 1733.50943934 : iteration 29871  
the risk is 1733.46701221 : iteration 29872  
the risk is 1733.61460819 : iteration 29873  
the risk is 1733.54907692 : iteration 29874  
the risk is 1733.65340759 : iteration 29875  
the risk is 1733.56979477 : iteration 29876  
the risk is 1733.49834472 : iteration 29877



the risk is 1733.43649281 : iteration 29878  
the risk is 1733.35837625 : iteration 29879  
the risk is 1733.28928132 : iteration 29880  
the risk is 1733.21328348 : iteration 29881  
the risk is 1733.14899587 : iteration 29882  
the risk is 1733.08232167 : iteration 29883  
the risk is 1733.20957661 : iteration 29884  
the risk is 1733.37763892 : iteration 29885  
the risk is 1733.299712 : iteration 29886  
the risk is 1733.23040144 : iteration 29887  
the risk is 1733.38134976 : iteration 29888  
the risk is 1733.46144253 : iteration 29889  
the risk is 1733.60932121 : iteration 29890  
the risk is 1733.50657283 : iteration 29891  
the risk is 1733.43208673 : iteration 29892  
the risk is 1733.36070955 : iteration 29893  
the risk is 1733.30991739 : iteration 29894  
the risk is 1733.23170895 : iteration 29895  
the risk is 1733.34673189 : iteration 29896  
the risk is 1733.27209069 : iteration 29897  
the risk is 1733.49543099 : iteration 29898  
the risk is 1733.41435423 : iteration 29899  
the risk is 1733.33446597 : iteration 29900  
the risk is 1733.47891621 : iteration 29901  
the risk is 1733.42496112 : iteration 29902  
the risk is 1733.51593 : iteration 29903  
the risk is 1733.65109892 : iteration 29904  
the risk is 1733.76429978 : iteration 29905  
the risk is 1733.68655721 : iteration 29906  
the risk is 1733.61021127 : iteration 29907  
the risk is 1733.52539788 : iteration 29908  
the risk is 1733.45080696 : iteration 29909  
the risk is 1733.5654076 : iteration 29910  
the risk is 1733.67870322 : iteration 29911  
the risk is 1733.63236051 : iteration 29912  
the risk is 1733.54249343 : iteration 29913  
the risk is 1733.73010369 : iteration 29914  
the risk is 1733.6642467 : iteration 29915  
the risk is 1733.59761356 : iteration 29916  
the risk is 1733.78733142 : iteration 29917  
the risk is 1733.96046586 : iteration 29918  
the risk is 1733.88622912 : iteration 29919  
the risk is 1734.09766771 : iteration 29920  
the risk is 1733.98632445 : iteration 29921  
the risk is 1733.89472056 : iteration 29922  
the risk is 1734.05151336 : iteration 29923  
the risk is 1733.98442024 : iteration 29924  
the risk is 1733.89235888 : iteration 29925  
the risk is 1734.11314018 : iteration 29926  
the risk is 1734.23978691 : iteration 29927  
the risk is 1734.15537071 : iteration 29928  
the risk is 1734.39174472 : iteration 29929  
the risk is 1734.60358381 : iteration 29930  
the risk is 1734.50430057 : iteration 29931

the risk is 1734.40226337 : iteration 29932  
the risk is 1734.27897934 : iteration 29933  
the risk is 1734.48738428 : iteration 29934  
the risk is 1734.70295176 : iteration 29935  
the risk is 1734.60181618 : iteration 29936  
the risk is 1734.52918249 : iteration 29937  
the risk is 1734.44126423 : iteration 29938  
the risk is 1734.34313795 : iteration 29939  
the risk is 1734.25838452 : iteration 29940  
the risk is 1734.1593409 : iteration 29941  
the risk is 1734.36560415 : iteration 29942  
the risk is 1734.24534664 : iteration 29943  
the risk is 1734.18438749 : iteration 29944  
the risk is 1734.11748794 : iteration 29945  
the risk is 1734.03853309 : iteration 29946  
the risk is 1734.29647167 : iteration 29947  
the risk is 1734.44775024 : iteration 29948  
the risk is 1734.35768775 : iteration 29949  
the risk is 1734.27171659 : iteration 29950  
the risk is 1734.17516181 : iteration 29951  
the risk is 1734.08822383 : iteration 29952  
the risk is 1734.29380025 : iteration 29953  
the risk is 1734.42531565 : iteration 29954  
the risk is 1734.33820593 : iteration 29955  
the risk is 1734.26950507 : iteration 29956  
the risk is 1734.14581668 : iteration 29957  
the risk is 1734.05299461 : iteration 29958  
the risk is 1734.14136307 : iteration 29959  
the risk is 1734.25010544 : iteration 29960  
the risk is 1734.15225853 : iteration 29961  
the risk is 1734.07152225 : iteration 29962  
the risk is 1733.98647121 : iteration 29963  
the risk is 1734.21521288 : iteration 29964  
the risk is 1734.42465622 : iteration 29965  
the risk is 1734.33389376 : iteration 29966  
the risk is 1734.44675981 : iteration 29967  
the risk is 1734.34611225 : iteration 29968  
the risk is 1734.28481234 : iteration 29969  
the risk is 1734.22133529 : iteration 29970  
the risk is 1734.12728031 : iteration 29971  
the risk is 1734.02151945 : iteration 29972  
the risk is 1733.92329123 : iteration 29973  
the risk is 1733.80114362 : iteration 29974  
the risk is 1733.71896561 : iteration 29975  
the risk is 1733.63758616 : iteration 29976  
the risk is 1733.54716404 : iteration 29977  
the risk is 1733.47185449 : iteration 29978  
the risk is 1733.58194666 : iteration 29979  
the risk is 1733.47371735 : iteration 29980  
the risk is 1733.38446763 : iteration 29981  
the risk is 1733.33634815 : iteration 29982  
the risk is 1733.49088905 : iteration 29983  
the risk is 1733.37607078 : iteration 29984  
the risk is 1733.31183039 : iteration 29985

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the risk is 1733.23091165 : iteration 29986
the risk is 1733.34676539 : iteration 29987
the risk is 1733.25907708 : iteration 29988
the risk is 1733.17172024 : iteration 29989
the risk is 1733.08556903 : iteration 29990
the risk is 1733.27284225 : iteration 29991
the risk is 1733.19904327 : iteration 29992
the risk is 1733.130197 : iteration 29993
the risk is 1733.08688898 : iteration 29994
the risk is 1733.31562529 : iteration 29995
the risk is 1733.26332413 : iteration 29996
the risk is 1733.35728836 : iteration 29997
the risk is 1733.57522346 : iteration 29998
the risk is 1733.48289971 : iteration 29999
the risk is 1733.59507488 : iteration 30000

```

After the 30000 iteration, we achieve the lowest training risk 1733.59507488. We plot the training risk over the number of iterations.

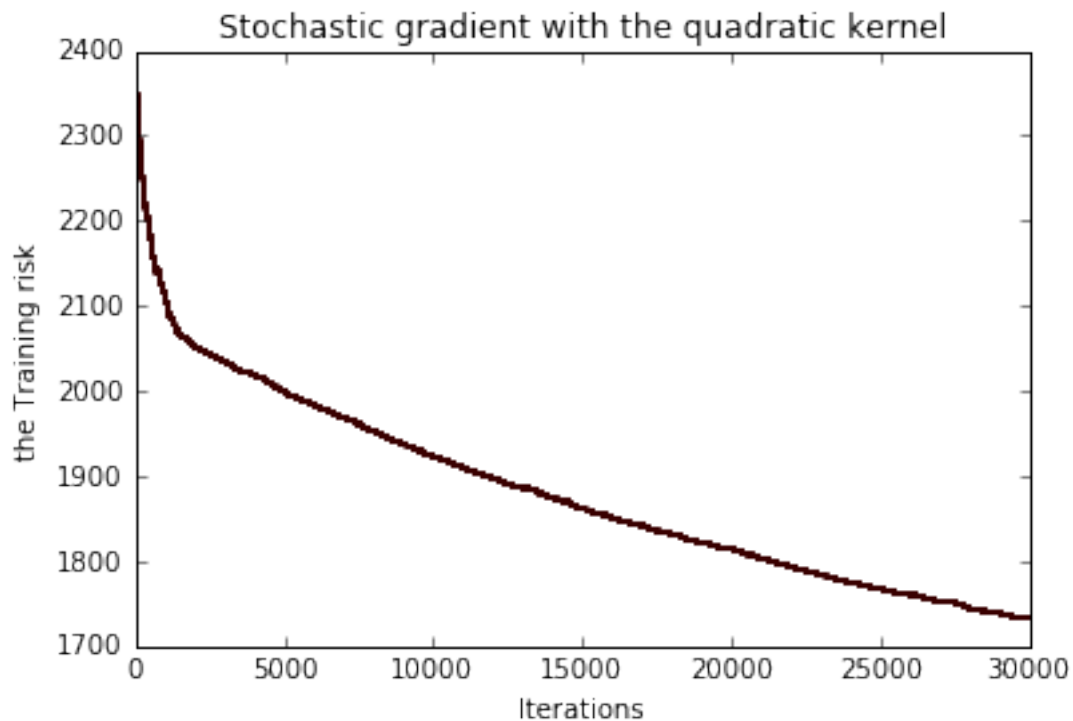
```

In [88]: xpos = np.arange(len(training_risk_kernel[0]))+ 1

plt.plot(xpos, training_risk_kernel[0], 'ro', ms =1)
plt.xlabel('Iterations')
plt.ylabel('the Training risk')
plt.title('Stochastic gradient with the quadratic kernel')

plt.show()

```



```
In [90]: validation_risk_kernel = stochastic_gradient_kernel_print(sp_xtrain0, sp_xvalid, sp_ytrain0,
                                                                    sp_yvalid, 19, 1e-5, 1e-3, 30000, quad)
```

```
the risk is 1194.98573929 : iteration 1
the risk is 1194.20773155 : iteration 2
the risk is 1193.36570734 : iteration 3
the risk is 1192.55076004 : iteration 4
the risk is 1191.80927024 : iteration 5
the risk is 1192.55777194 : iteration 6
the risk is 1193.30053708 : iteration 7
the risk is 1192.48966295 : iteration 8
the risk is 1191.70459066 : iteration 9
the risk is 1190.96184941 : iteration 10
the risk is 1191.7099116 : iteration 11
the risk is 1190.90356364 : iteration 12
the risk is 1190.16327242 : iteration 13
the risk is 1189.3846922 : iteration 14
the risk is 1188.63467339 : iteration 15
the risk is 1187.88011407 : iteration 16
the risk is 1187.10411683 : iteration 17
the risk is 1187.89314283 : iteration 18
the risk is 1187.09505982 : iteration 19
the risk is 1186.31956597 : iteration 20
the risk is 1185.5250791 : iteration 21
the risk is 1184.80206725 : iteration 22
the risk is 1184.07914126 : iteration 23
the risk is 1184.81928945 : iteration 24
the risk is 1184.05880372 : iteration 25
the risk is 1183.34059455 : iteration 26
the risk is 1182.58525699 : iteration 27
the risk is 1181.87188959 : iteration 28
the risk is 1181.06952257 : iteration 29
the risk is 1181.80351573 : iteration 30
the risk is 1182.53824473 : iteration 31
the risk is 1181.82484125 : iteration 32
the risk is 1181.11381816 : iteration 33
the risk is 1180.37291976 : iteration 34
the risk is 1179.66487554 : iteration 35
the risk is 1180.42071671 : iteration 36
the risk is 1179.70344952 : iteration 37
the risk is 1178.91792199 : iteration 38
the risk is 1179.64837315 : iteration 39
the risk is 1180.45956979 : iteration 40
the risk is 1181.19454139 : iteration 41
the risk is 1180.4698393 : iteration 42
the risk is 1179.67675291 : iteration 43
the risk is 1180.40076674 : iteration 44
the risk is 1179.62847651 : iteration 45
the risk is 1178.9219093 : iteration 46
the risk is 1178.09916193 : iteration 47
the risk is 1178.85748216 : iteration 48
the risk is 1179.61947512 : iteration 49
the risk is 1178.90099568 : iteration 50
the risk is 1179.69532893 : iteration 51
```

the risk is 1178.99072173 : iteration 52  
the risk is 1179.72385228 : iteration 53  
the risk is 1179.00507211 : iteration 54  
the risk is 1178.26412332 : iteration 55  
the risk is 1177.56420911 : iteration 56  
the risk is 1176.82489183 : iteration 57  
the risk is 1176.1191264 : iteration 58  
the risk is 1176.84801366 : iteration 59  
the risk is 1176.14222553 : iteration 60  
the risk is 1175.43889449 : iteration 61  
the risk is 1174.74836288 : iteration 62  
the risk is 1174.02230973 : iteration 63  
the risk is 1173.33648335 : iteration 64  
the risk is 1174.05880411 : iteration 65  
the risk is 1174.83150566 : iteration 66  
the risk is 1174.06897454 : iteration 67  
the risk is 1174.78445397 : iteration 68  
the risk is 1174.10524254 : iteration 69  
the risk is 1173.41898335 : iteration 70  
the risk is 1172.7095458 : iteration 71  
the risk is 1172.01420575 : iteration 72  
the risk is 1172.72586007 : iteration 73  
the risk is 1173.49183266 : iteration 74  
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the risk is 848.609676424 : iteration 29862  
the risk is 848.548425147 : iteration 29863  
the risk is 848.468867101 : iteration 29864  
the risk is 848.556623799 : iteration 29865  
the risk is 848.511100269 : iteration 29866  
the risk is 848.461609717 : iteration 29867  
the risk is 848.531698441 : iteration 29868  
the risk is 848.477215862 : iteration 29869  
the risk is 848.426967533 : iteration 29870  
the risk is 848.528235182 : iteration 29871  
the risk is 848.498358515 : iteration 29872  
the risk is 848.616201985 : iteration 29873  
the risk is 848.568625963 : iteration 29874  
the risk is 848.658981616 : iteration 29875  
the risk is 848.597804557 : iteration 29876  
the risk is 848.544944756 : iteration 29877  
the risk is 848.498789622 : iteration 29878  
the risk is 848.437391978 : iteration 29879  
the risk is 848.385741174 : iteration 29880  
the risk is 848.325429039 : iteration 29881  
the risk is 848.27669509 : iteration 29882  
the risk is 848.22628715 : iteration 29883  
the risk is 848.331877283 : iteration 29884  
the risk is 848.464485446 : iteration 29885  
the risk is 848.403188375 : iteration 29886  
the risk is 848.352784435 : iteration 29887  
the risk is 848.467585131 : iteration 29888  
the risk is 848.5391448 : iteration 29889  
the risk is 848.654786439 : iteration 29890  
the risk is 848.570152096 : iteration 29891  
the risk is 848.515945345 : iteration 29892  
the risk is 848.463128516 : iteration 29893  
the risk is 848.426610756 : iteration 29894  
the risk is 848.365175748 : iteration 29895  
the risk is 848.460180188 : iteration 29896  
the risk is 848.401962729 : iteration 29897  
the risk is 848.567008071 : iteration 29898  
the risk is 848.504110149 : iteration 29899  
the risk is 848.441821557 : iteration 29900  
the risk is 848.555823881 : iteration 29901  
the risk is 848.516927228 : iteration 29902  
the risk is 848.596606507 : iteration 29903  
the risk is 848.704449215 : iteration 29904  
the risk is 848.799058459 : iteration 29905  
the risk is 848.741950633 : iteration 29906  
the risk is 848.686592509 : iteration 29907  
the risk is 848.621796152 : iteration 29908  
the risk is 848.567338823 : iteration 29909  
the risk is 848.661374415 : iteration 29910  
the risk is 848.756020734 : iteration 29911  
the risk is 848.723969654 : iteration 29912  
the risk is 848.656802864 : iteration 29913

the risk is 848.798937171 : iteration 29914  
the risk is 848.751500261 : iteration 29915  
the risk is 848.704575915 : iteration 29916  
the risk is 848.84773707 : iteration 29917  
the risk is 848.973518582 : iteration 29918  
the risk is 848.920490376 : iteration 29919  
the risk is 849.071451792 : iteration 29920  
the risk is 848.985286582 : iteration 29921  
the risk is 848.919332174 : iteration 29922  
the risk is 849.040323382 : iteration 29923  
the risk is 848.992841767 : iteration 29924  
the risk is 848.924342416 : iteration 29925  
the risk is 849.088150597 : iteration 29926  
the risk is 849.189245226 : iteration 29927  
the risk is 849.129751818 : iteration 29928  
the risk is 849.298884295 : iteration 29929  
the risk is 849.452840926 : iteration 29930  
the risk is 849.382987784 : iteration 29931  
the risk is 849.310082923 : iteration 29932  
the risk is 849.212593709 : iteration 29933  
the risk is 849.364874182 : iteration 29934  
the risk is 849.52014703 : iteration 29935  
the risk is 849.447007828 : iteration 29936  
the risk is 849.39796483 : iteration 29937  
the risk is 849.335647043 : iteration 29938  
the risk is 849.264049241 : iteration 29939  
the risk is 849.205048031 : iteration 29940  
the risk is 849.132491221 : iteration 29941  
the risk is 849.283716136 : iteration 29942  
the risk is 849.193906154 : iteration 29943  
the risk is 849.152169474 : iteration 29944  
the risk is 849.106297041 : iteration 29945  
the risk is 849.050064844 : iteration 29946  
the risk is 849.232000225 : iteration 29947  
the risk is 849.348501384 : iteration 29948  
the risk is 849.285690616 : iteration 29949  
the risk is 849.225403931 : iteration 29950  
the risk is 849.154613429 : iteration 29951  
the risk is 849.091938817 : iteration 29952  
the risk is 849.242820925 : iteration 29953  
the risk is 849.346250418 : iteration 29954  
the risk is 849.285381356 : iteration 29955  
the risk is 849.2385855 : iteration 29956  
the risk is 849.144618919 : iteration 29957  
the risk is 849.079243013 : iteration 29958  
the risk is 849.153811353 : iteration 29959  
the risk is 849.23961208 : iteration 29960  
the risk is 849.168156021 : iteration 29961  
the risk is 849.111013106 : iteration 29962  
the risk is 849.050174005 : iteration 29963  
the risk is 849.217851962 : iteration 29964  
the risk is 849.372616777 : iteration 29965  
the risk is 849.310439915 : iteration 29966  
the risk is 849.398227576 : iteration 29967

```

the risk is 849.327567256 : iteration 29968
the risk is 849.287251117 : iteration 29969
the risk is 849.243460775 : iteration 29970
the risk is 849.180511968 : iteration 29971
the risk is 849.101660624 : iteration 29972
the risk is 849.029430679 : iteration 29973
the risk is 848.937254226 : iteration 29974
the risk is 848.878913036 : iteration 29975
the risk is 848.820981821 : iteration 29976
the risk is 848.753475218 : iteration 29977
the risk is 848.702492902 : iteration 29978
the risk is 848.792638151 : iteration 29979
the risk is 848.708065881 : iteration 29980
the risk is 848.641003732 : iteration 29981
the risk is 848.608099105 : iteration 29982
the risk is 848.729436766 : iteration 29983
the risk is 848.64519449 : iteration 29984
the risk is 848.599187664 : iteration 29985
the risk is 848.540981381 : iteration 29986
the risk is 848.636837815 : iteration 29987
the risk is 848.570570446 : iteration 29988
the risk is 848.504476826 : iteration 29989
the risk is 848.439001153 : iteration 29990
the risk is 848.580956226 : iteration 29991
the risk is 848.528980923 : iteration 29992
the risk is 848.479532176 : iteration 29993
the risk is 848.450313802 : iteration 29994
the risk is 848.618014203 : iteration 29995
the risk is 848.58231981 : iteration 29996
the risk is 848.662712355 : iteration 29997
the risk is 848.825113273 : iteration 29998
the risk is 848.756474267 : iteration 29999
the risk is 848.848799934 : iteration 30000

```

The validation risk, which initially was 1194.9857, decreases down to 848.848799934 after 30000 iterations.

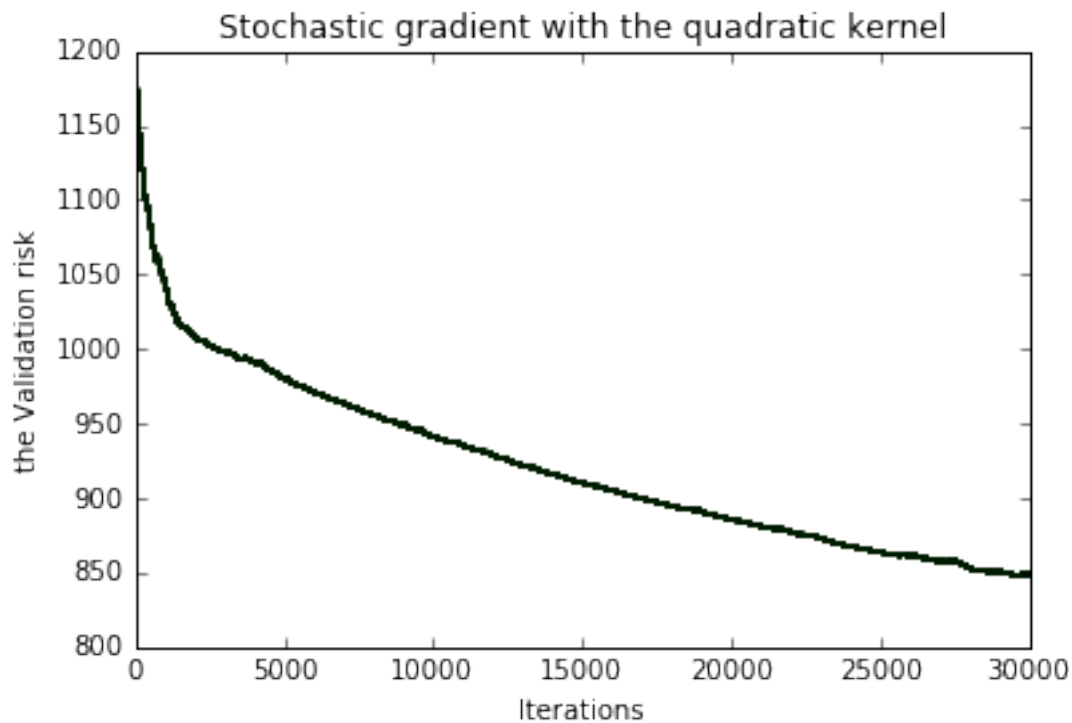
```

In [91]: xpos = np.arange(len(validation_risk_kernel[0]))+ 1

plt.plot(xpos, validation_risk_kernel[0], 'go', ms =1)
plt.xlabel('Iterations')
plt.ylabel('the Validation risk')
plt.title('Stochastic gradient with the quadratic kernel')

plt.show()

```



Repeat the same experiment with the linear kernel

In [92]: *# define the linear kernel function*

```
def linear_K(rho, X_train, X_test):
    return np.dot(X_train, np.transpose(X_test)) + rho
```

10-fold Cross Validation

In [104]: `tenfold_cv_(0, 1e-5, 1e-3, 500, linear_K)`

Out[104]: 238.81973628796601

In [105]: `tenfold_cv_(1, 1e-5, 1e-3, 500, linear_K)`

Out[105]: 238.63221702134652

In [106]: `tenfold_cv_(20, 1e-5, 1e-3, 500, linear_K)`

Out[106]: 232.59098370465694

In [107]: `tenfold_cv_(10, 1e-5, 1e-3, 500, linear_K)`

Out[107]: 234.53067277148665

In [108]: `tenfold_cv_(30, 1e-5, 1e-3, 500, linear_K)`

Out[108]: 252.04620848751625

In [109]: `tenfold_cv_(19, 1e-5, 1e-3, 500, linear_K)`



```
Out[109]: 232.18632045192498
```

```
In [110]: tenfold_cv_(18, 1e-5, 1e-3, 500, linear_K)
```

```
Out[110]: 231.97186548732543
```

```
In [111]: tenfold_cv_(15, 1e-5, 1e-3, 500, linear_K)
```

```
Out[111]: 232.2471268876871
```

```
In [112]: tenfold_cv_(16, 1e-5, 1e-3, 500, linear_K)
```

```
Out[112]: 232.02402140148493
```

```
In [113]: tenfold_cv_(17, 1e-5, 1e-3, 500, linear_K)
```

```
Out[113]: 231.92511545177331
```

It is when  $\rho = 17$  that the 10-fold cross validation records the lowest average risk.

```
In [116]: training_risk_kernel_linear = stochastic_gradient_kernel_print(sp_xtrain0, sp_xtrain0,  
                                                                           sp_ytrain0, sp_ytrain0, 17, 1e-5, 1e-3
```

```
the risk is 2389.97147857 : iteration 1  
the risk is 2389.90650462 : iteration 2  
the risk is 2389.8385066 : iteration 3  
the risk is 2389.77134939 : iteration 4  
the risk is 2389.70773888 : iteration 5  
the risk is 2389.77139251 : iteration 6  
the risk is 2389.83472035 : iteration 7  
the risk is 2389.76799327 : iteration 8  
the risk is 2389.70251425 : iteration 9  
the risk is 2389.63874838 : iteration 10  
the risk is 2389.70253505 : iteration 11  
the risk is 2389.6357788 : iteration 12  
the risk is 2389.57202282 : iteration 13  
the risk is 2389.50624651 : iteration 14  
the risk is 2389.4417862 : iteration 15  
the risk is 2389.37710109 : iteration 16  
the risk is 2389.31116399 : iteration 17  
the risk is 2389.37715804 : iteration 18  
the risk is 2389.3100696 : iteration 19  
the risk is 2389.24373855 : iteration 20  
the risk is 2389.17696497 : iteration 21  
the risk is 2389.11327866 : iteration 22  
the risk is 2389.04945504 : iteration 23  
the risk is 2389.1132089 : iteration 24  
the risk is 2389.04750431 : iteration 25  
the risk is 2388.98383783 : iteration 26  
the risk is 2388.91815372 : iteration 27  
the risk is 2388.85450706 : iteration 28  
the risk is 2388.78653727 : iteration 29  
the risk is 2388.85018377 : iteration 30  
the risk is 2388.91378182 : iteration 31  
the risk is 2388.85013542 : iteration 32  
the risk is 2388.78649886 : iteration 33
```

the risk is 2388.72117244 : iteration 34  
the risk is 2388.65749341 : iteration 35  
the risk is 2388.72210065 : iteration 36  
the risk is 2388.6580204 : iteration 37  
the risk is 2388.59032047 : iteration 38  
the risk is 2388.6539014 : iteration 39  
the risk is 2388.72108851 : iteration 40  
the risk is 2388.78482104 : iteration 41  
the risk is 2388.720425 : iteration 42  
the risk is 2388.65261312 : iteration 43  
the risk is 2388.71586641 : iteration 44  
the risk is 2388.64888659 : iteration 45  
the risk is 2388.58513309 : iteration 46  
the risk is 2388.51548124 : iteration 47  
the risk is 2388.58094078 : iteration 48  
the risk is 2388.6460425 : iteration 49  
the risk is 2388.58171298 : iteration 50  
the risk is 2388.64840979 : iteration 51  
the risk is 2388.58480286 : iteration 52  
the risk is 2388.64852711 : iteration 53  
the risk is 2388.58419734 : iteration 54  
the risk is 2388.51857494 : iteration 55  
the risk is 2388.45498784 : iteration 56  
the risk is 2388.38920502 : iteration 57  
the risk is 2388.32517504 : iteration 58  
the risk is 2388.38888238 : iteration 59  
the risk is 2388.32485258 : iteration 60  
the risk is 2388.26083288 : iteration 61  
the risk is 2388.19728541 : iteration 62  
the risk is 2388.13172425 : iteration 63  
the risk is 2388.06819658 : iteration 64  
the risk is 2388.13174385 : iteration 65  
the risk is 2388.19810032 : iteration 66  
the risk is 2388.13080669 : iteration 67  
the risk is 2388.19402536 : iteration 68  
the risk is 2388.13096161 : iteration 69  
the risk is 2388.0674338 : iteration 70  
the risk is 2388.00265487 : iteration 71  
the risk is 2387.93842475 : iteration 72  
the risk is 2388.00172643 : iteration 73  
the risk is 2388.0674461 : iteration 74  
the risk is 2388.00266706 : iteration 75  
the risk is 2387.93855781 : iteration 76  
the risk is 2387.87499532 : iteration 77  
the risk is 2387.81150684 : iteration 78  
the risk is 2387.74802819 : iteration 79  
the risk is 2387.81147428 : iteration 80  
the risk is 2387.7459735 : iteration 81  
the risk is 2387.80940924 : iteration 82  
the risk is 2387.74204792 : iteration 83  
the risk is 2387.67655779 : iteration 84  
the risk is 2387.61214361 : iteration 85  
the risk is 2387.54667396 : iteration 86  
the risk is 2387.48233008 : iteration 87

the risk is 2387.41555194 : iteration 88  
the risk is 2387.47932852 : iteration 89  
the risk is 2387.41240784 : iteration 90  
the risk is 2387.47738713 : iteration 91  
the risk is 2387.54177861 : iteration 92  
the risk is 2387.47635356 : iteration 93  
the risk is 2387.41292483 : iteration 94  
the risk is 2387.47830565 : iteration 95  
the risk is 2387.41138396 : iteration 96  
the risk is 2387.34750116 : iteration 97  
the risk is 2387.41458964 : iteration 98  
the risk is 2387.35017789 : iteration 99  
the risk is 2387.28676834 : iteration 100  
the risk is 2387.22185704 : iteration 101  
the risk is 2387.15525317 : iteration 102  
the risk is 2387.08926835 : iteration 103  
the risk is 2387.02482886 : iteration 104  
the risk is 2386.95819254 : iteration 105  
the risk is 2386.89132157 : iteration 106  
the risk is 2386.82448939 : iteration 107  
the risk is 2386.76115991 : iteration 108  
the risk is 2386.82665683 : iteration 109  
the risk is 2386.76286684 : iteration 110  
the risk is 2386.8278672 : iteration 111  
the risk is 2386.75822294 : iteration 112  
the risk is 2386.6949031 : iteration 113  
the risk is 2386.62957649 : iteration 114  
the risk is 2386.56627641 : iteration 115  
the risk is 2386.50172896 : iteration 116  
the risk is 2386.43474889 : iteration 117  
the risk is 2386.36946104 : iteration 118  
the risk is 2386.4338409 : iteration 119  
the risk is 2386.36961758 : iteration 120  
the risk is 2386.306357 : iteration 121  
the risk is 2386.2426468 : iteration 122  
the risk is 2386.30621923 : iteration 123  
the risk is 2386.24250919 : iteration 124  
the risk is 2386.17926823 : iteration 125  
the risk is 2386.24213111 : iteration 126  
the risk is 2386.30665232 : iteration 127  
the risk is 2386.24138662 : iteration 128  
the risk is 2386.17814548 : iteration 129  
the risk is 2386.24261768 : iteration 130  
the risk is 2386.17937644 : iteration 131  
the risk is 2386.11317861 : iteration 132  
the risk is 2386.04626174 : iteration 133  
the risk is 2385.98056145 : iteration 134  
the risk is 2386.0443096 : iteration 135  
the risk is 2386.11091512 : iteration 136  
the risk is 2386.04674136 : iteration 137  
the risk is 2385.98043818 : iteration 138  
the risk is 2386.04312388 : iteration 139  
the risk is 2385.97991214 : iteration 140  
the risk is 2385.91625109 : iteration 141

the risk is 2385.98112584 : iteration 142  
the risk is 2385.91151849 : iteration 143  
the risk is 2385.84661215 : iteration 144  
the risk is 2385.78336822 : iteration 145  
the risk is 2385.7201959 : iteration 146  
the risk is 2385.65395916 : iteration 147  
the risk is 2385.5911782 : iteration 148  
the risk is 2385.52760669 : iteration 149  
the risk is 2385.59111653 : iteration 150  
the risk is 2385.52498912 : iteration 151  
the risk is 2385.46002365 : iteration 152  
the risk is 2385.39669383 : iteration 153  
the risk is 2385.33157101 : iteration 154  
the risk is 2385.26480116 : iteration 155  
the risk is 2385.19969896 : iteration 156  
the risk is 2385.13615513 : iteration 157  
the risk is 2385.07308224 : iteration 158  
the risk is 2385.13622277 : iteration 159  
the risk is 2385.0659981 : iteration 160  
the risk is 2385.12962045 : iteration 161  
the risk is 2385.06453902 : iteration 162  
the risk is 2385.0019533 : iteration 163  
the risk is 2385.06692525 : iteration 164  
the risk is 2385.00291275 : iteration 165  
the risk is 2384.93985954 : iteration 166  
the risk is 2384.8768161 : iteration 167  
the risk is 2384.81177467 : iteration 168  
the risk is 2384.74803309 : iteration 169  
the risk is 2384.8142807 : iteration 170  
the risk is 2384.74984697 : iteration 171  
the risk is 2384.68392793 : iteration 172  
the risk is 2384.61847984 : iteration 173  
the risk is 2384.55229274 : iteration 174  
the risk is 2384.48885152 : iteration 175  
the risk is 2384.42542034 : iteration 176  
the risk is 2384.36189192 : iteration 177  
the risk is 2384.29609109 : iteration 178  
the risk is 2384.35953597 : iteration 179  
the risk is 2384.42510849 : iteration 180  
the risk is 2384.49123507 : iteration 181  
the risk is 2384.42286195 : iteration 182  
the risk is 2384.35938527 : iteration 183  
the risk is 2384.29643035 : iteration 184  
the risk is 2384.23014572 : iteration 185  
the risk is 2384.16434478 : iteration 186  
the risk is 2384.10189748 : iteration 187  
the risk is 2384.0357266 : iteration 188  
the risk is 2384.09867019 : iteration 189  
the risk is 2384.03485766 : iteration 190  
the risk is 2383.969948 : iteration 191  
the risk is 2383.90295821 : iteration 192  
the risk is 2383.96589273 : iteration 193  
the risk is 2383.90099368 : iteration 194  
the risk is 2383.83810807 : iteration 195

the risk is 2383.7752322 : iteration 196  
the risk is 2383.83874759 : iteration 197  
the risk is 2383.76960121 : iteration 198  
the risk is 2383.70302484 : iteration 199  
the risk is 2383.63913879 : iteration 200  
the risk is 2383.57414726 : iteration 201  
the risk is 2383.50916424 : iteration 202  
the risk is 2383.57440815 : iteration 203  
the risk is 2383.5081522 : iteration 204  
the risk is 2383.44430955 : iteration 205  
the risk is 2383.38072034 : iteration 206  
the risk is 2383.444105 : iteration 207  
the risk is 2383.37839231 : iteration 208  
the risk is 2383.31551325 : iteration 209  
the risk is 2383.37972911 : iteration 210  
the risk is 2383.3151344 : iteration 211  
the risk is 2383.37983114 : iteration 212  
the risk is 2383.31502339 : iteration 213  
the risk is 2383.25022594 : iteration 214  
the risk is 2383.18743882 : iteration 215  
the risk is 2383.12213659 : iteration 216  
the risk is 2383.05891225 : iteration 217  
the risk is 2382.99477407 : iteration 218  
the risk is 2382.93157153 : iteration 219  
the risk is 2382.99704157 : iteration 220  
the risk is 2382.93477197 : iteration 221  
the risk is 2382.87203358 : iteration 222  
the risk is 2382.80636107 : iteration 223  
the risk is 2382.74214875 : iteration 224  
the risk is 2382.67808969 : iteration 225  
the risk is 2382.74094075 : iteration 226  
the risk is 2382.67406423 : iteration 227  
the risk is 2382.73822102 : iteration 228  
the risk is 2382.67247596 : iteration 229  
the risk is 2382.60883234 : iteration 230  
the risk is 2382.54320173 : iteration 231  
the risk is 2382.60653112 : iteration 232  
the risk is 2382.54384226 : iteration 233  
the risk is 2382.47916625 : iteration 234  
the risk is 2382.54249137 : iteration 235  
the risk is 2382.47981229 : iteration 236  
the risk is 2382.54344267 : iteration 237  
the risk is 2382.47649579 : iteration 238  
the risk is 2382.41309573 : iteration 239  
the risk is 2382.3504365 : iteration 240  
the risk is 2382.28493327 : iteration 241  
the risk is 2382.22229364 : iteration 242  
the risk is 2382.15966374 : iteration 243  
the risk is 2382.22247941 : iteration 244  
the risk is 2382.28529934 : iteration 245  
the risk is 2382.35006912 : iteration 246  
the risk is 2382.28741893 : iteration 247  
the risk is 2382.35126491 : iteration 248  
the risk is 2382.28861448 : iteration 249

the risk is 2382.22397801 : iteration 250  
the risk is 2382.15828488 : iteration 251  
the risk is 2382.22378045 : iteration 252  
the risk is 2382.15918905 : iteration 253  
the risk is 2382.09494952 : iteration 254  
the risk is 2382.0313947 : iteration 255  
the risk is 2381.96534124 : iteration 256  
the risk is 2381.90075597 : iteration 257  
the risk is 2381.83817447 : iteration 258  
the risk is 2381.77070797 : iteration 259  
the risk is 2381.70615336 : iteration 260  
the risk is 2381.64160903 : iteration 261  
the risk is 2381.5781244 : iteration 262  
the risk is 2381.51551121 : iteration 263  
the risk is 2381.45298866 : iteration 264  
the risk is 2381.51624586 : iteration 265  
the risk is 2381.58162171 : iteration 266  
the risk is 2381.51814651 : iteration 267  
the risk is 2381.45468132 : iteration 268  
the risk is 2381.39058469 : iteration 269  
the risk is 2381.45414242 : iteration 270  
the risk is 2381.51887027 : iteration 271  
the risk is 2381.4549507 : iteration 272  
the risk is 2381.39172403 : iteration 273  
the risk is 2381.32922027 : iteration 274  
the risk is 2381.26384475 : iteration 275  
the risk is 2381.19937002 : iteration 276  
the risk is 2381.26246505 : iteration 277  
the risk is 2381.19666734 : iteration 278  
the risk is 2381.26181195 : iteration 279  
the risk is 2381.19475073 : iteration 280  
the risk is 2381.25890338 : iteration 281  
the risk is 2381.19641914 : iteration 282  
the risk is 2381.13050019 : iteration 283  
the risk is 2381.0655853 : iteration 284  
the risk is 2381.00114149 : iteration 285  
the risk is 2380.93670795 : iteration 286  
the risk is 2380.99904614 : iteration 287  
the risk is 2381.06161729 : iteration 288  
the risk is 2380.99631608 : iteration 289  
the risk is 2380.93387117 : iteration 290  
the risk is 2380.87096323 : iteration 291  
the risk is 2380.93703391 : iteration 292  
the risk is 2380.87217713 : iteration 293  
the risk is 2380.80593372 : iteration 294  
the risk is 2380.74306593 : iteration 295  
the risk is 2380.67867229 : iteration 296  
the risk is 2380.61414358 : iteration 297  
the risk is 2380.54977025 : iteration 298  
the risk is 2380.48571854 : iteration 299  
the risk is 2380.5508209 : iteration 300  
the risk is 2380.48799236 : iteration 301  
the risk is 2380.42468528 : iteration 302  
the risk is 2380.36131818 : iteration 303

the risk is 2380.29851929 : iteration 304  
the risk is 2380.36170043 : iteration 305  
the risk is 2380.42439321 : iteration 306  
the risk is 2380.36158441 : iteration 307  
the risk is 2380.29555565 : iteration 308  
the risk is 2380.22850786 : iteration 309  
the risk is 2380.16611866 : iteration 310  
the risk is 2380.22976298 : iteration 311  
the risk is 2380.16416523 : iteration 312  
the risk is 2380.09986222 : iteration 313  
the risk is 2380.03546834 : iteration 314  
the risk is 2379.97245849 : iteration 315  
the risk is 2379.91012687 : iteration 316  
the risk is 2379.84528332 : iteration 317  
the risk is 2379.7823155 : iteration 318  
the risk is 2379.84700128 : iteration 319  
the risk is 2379.78428232 : iteration 320  
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the risk is 2099.35800051 : iteration 29717  
the risk is 2099.37867025 : iteration 29718  
the risk is 2099.39927317 : iteration 29719  
the risk is 2099.42132 : iteration 29720  
the risk is 2099.44361833 : iteration 29721  
the risk is 2099.46585358 : iteration 29722  
the risk is 2099.48602191 : iteration 29723  
the risk is 2099.47356482 : iteration 29724  
the risk is 2099.49659507 : iteration 29725  
the risk is 2099.48446142 : iteration 29726  
the risk is 2099.47224781 : iteration 29727  
the risk is 2099.49467886 : iteration 29728  
the risk is 2099.51693818 : iteration 29729  
the risk is 2099.50456792 : iteration 29730  
the risk is 2099.52530607 : iteration 29731  
the risk is 2099.51257229 : iteration 29732  
the risk is 2099.49996626 : iteration 29733

the risk is 2099.52222897 : iteration 29734  
the risk is 2099.5098443 : iteration 29735  
the risk is 2099.53024886 : iteration 29736  
the risk is 2099.5178339 : iteration 29737  
the risk is 2099.50528386 : iteration 29738  
the risk is 2099.49314569 : iteration 29739  
the risk is 2099.48099896 : iteration 29740  
the risk is 2099.5032548 : iteration 29741  
the risk is 2099.49029613 : iteration 29742  
the risk is 2099.51222254 : iteration 29743  
the risk is 2099.5000819 : iteration 29744  
the risk is 2099.52208263 : iteration 29745  
the risk is 2099.50895431 : iteration 29746  
the risk is 2099.49750899 : iteration 29747  
the risk is 2099.48388541 : iteration 29748  
the risk is 2099.47128613 : iteration 29749  
the risk is 2099.45915719 : iteration 29750  
the risk is 2099.48123589 : iteration 29751  
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the risk is 2099.52688981 : iteration 29753  
the risk is 2099.51419274 : iteration 29754  
the risk is 2099.50199521 : iteration 29755  
the risk is 2099.48931096 : iteration 29756  
the risk is 2099.47666999 : iteration 29757  
the risk is 2099.46403276 : iteration 29758  
the risk is 2099.4862837 : iteration 29759  
the risk is 2099.50680899 : iteration 29760  
the risk is 2099.52989005 : iteration 29761  
the risk is 2099.51765856 : iteration 29762  
the risk is 2099.50490099 : iteration 29763  
the risk is 2099.49276056 : iteration 29764  
the risk is 2099.48030074 : iteration 29765  
the risk is 2099.46668666 : iteration 29766  
the risk is 2099.49042868 : iteration 29767  
the risk is 2099.47820884 : iteration 29768  
the risk is 2099.50157126 : iteration 29769  
the risk is 2099.52320064 : iteration 29770  
the risk is 2099.51105395 : iteration 29771  
the risk is 2099.53438857 : iteration 29772  
the risk is 2099.55618574 : iteration 29773  
the risk is 2099.5435226 : iteration 29774  
the risk is 2099.56710178 : iteration 29775  
the risk is 2099.58987545 : iteration 29776  
the risk is 2099.57770853 : iteration 29777  
the risk is 2099.56503874 : iteration 29778  
the risk is 2099.58724655 : iteration 29779  
the risk is 2099.60872219 : iteration 29780  
the risk is 2099.59654904 : iteration 29781  
the risk is 2099.58319744 : iteration 29782  
the risk is 2099.5695516 : iteration 29783  
the risk is 2099.55648526 : iteration 29784  
the risk is 2099.54405734 : iteration 29785  
the risk is 2099.566348 : iteration 29786  
the risk is 2099.55347158 : iteration 29787



the risk is 2099.5754328 : iteration 29788  
the risk is 2099.59773746 : iteration 29789  
the risk is 2099.58543256 : iteration 29790  
the risk is 2099.60648105 : iteration 29791  
the risk is 2099.59429861 : iteration 29792  
the risk is 2099.61661226 : iteration 29793  
the risk is 2099.60410802 : iteration 29794  
the risk is 2099.62490139 : iteration 29795  
the risk is 2099.61174932 : iteration 29796  
the risk is 2099.63246049 : iteration 29797  
the risk is 2099.62015645 : iteration 29798  
the risk is 2099.64248333 : iteration 29799  
the risk is 2099.62979008 : iteration 29800  
the risk is 2099.61761406 : iteration 29801  
the risk is 2099.63786417 : iteration 29802  
the risk is 2099.66028479 : iteration 29803  
the risk is 2099.68263026 : iteration 29804  
the risk is 2099.66938666 : iteration 29805  
the risk is 2099.65789884 : iteration 29806  
the risk is 2099.64524016 : iteration 29807  
the risk is 2099.63162177 : iteration 29808  
the risk is 2099.61795536 : iteration 29809  
the risk is 2099.60526135 : iteration 29810  
the risk is 2099.59308395 : iteration 29811  
the risk is 2099.58040392 : iteration 29812  
the risk is 2099.56766578 : iteration 29813  
the risk is 2099.55467135 : iteration 29814  
the risk is 2099.54250865 : iteration 29815  
the risk is 2099.53029989 : iteration 29816  
the risk is 2099.51797543 : iteration 29817  
the risk is 2099.53987292 : iteration 29818  
the risk is 2099.52711853 : iteration 29819  
the risk is 2099.54801999 : iteration 29820  
the risk is 2099.53458853 : iteration 29821  
the risk is 2099.52192403 : iteration 29822  
the risk is 2099.54235769 : iteration 29823  
the risk is 2099.52946822 : iteration 29824  
the risk is 2099.51712593 : iteration 29825  
the risk is 2099.53870462 : iteration 29826  
the risk is 2099.52644041 : iteration 29827  
the risk is 2099.51335295 : iteration 29828  
the risk is 2099.53411651 : iteration 29829  
the risk is 2099.52047531 : iteration 29830  
the risk is 2099.54091212 : iteration 29831  
the risk is 2099.52765558 : iteration 29832  
the risk is 2099.51518794 : iteration 29833  
the risk is 2099.53717961 : iteration 29834  
the risk is 2099.52501658 : iteration 29835  
the risk is 2099.51285721 : iteration 29836  
the risk is 2099.50070151 : iteration 29837  
the risk is 2099.52146234 : iteration 29838  
the risk is 2099.50930355 : iteration 29839  
the risk is 2099.53006892 : iteration 29840  
the risk is 2099.51867774 : iteration 29841

the risk is 2099.50651964 : iteration 29842  
the risk is 2099.49385922 : iteration 29843  
the risk is 2099.48088792 : iteration 29844  
the risk is 2099.46823499 : iteration 29845  
the risk is 2099.45584945 : iteration 29846  
the risk is 2099.44357637 : iteration 29847  
the risk is 2099.46732847 : iteration 29848  
the risk is 2099.48933752 : iteration 29849  
the risk is 2099.47667559 : iteration 29850  
the risk is 2099.49742745 : iteration 29851  
the risk is 2099.48480359 : iteration 29852  
the risk is 2099.50518374 : iteration 29853  
the risk is 2099.49198027 : iteration 29854  
the risk is 2099.47938841 : iteration 29855  
the risk is 2099.46739921 : iteration 29856  
the risk is 2099.48814931 : iteration 29857  
the risk is 2099.47608976 : iteration 29858  
the risk is 2099.46385829 : iteration 29859  
the risk is 2099.45108001 : iteration 29860  
the risk is 2099.47247468 : iteration 29861  
the risk is 2099.45982119 : iteration 29862  
the risk is 2099.44759373 : iteration 29863  
the risk is 2099.43560221 : iteration 29864  
the risk is 2099.45634003 : iteration 29865  
the risk is 2099.44342219 : iteration 29866  
the risk is 2099.43081645 : iteration 29867  
the risk is 2099.4511328 : iteration 29868  
the risk is 2099.4387208 : iteration 29869  
the risk is 2099.42587975 : iteration 29870  
the risk is 2099.44730857 : iteration 29871  
the risk is 2099.43366725 : iteration 29872  
the risk is 2099.45568368 : iteration 29873  
the risk is 2099.44278284 : iteration 29874  
the risk is 2099.46352817 : iteration 29875  
the risk is 2099.45107261 : iteration 29876  
the risk is 2099.43842222 : iteration 29877  
the risk is 2099.42558076 : iteration 29878  
the risk is 2099.41344326 : iteration 29879  
the risk is 2099.40080402 : iteration 29880  
the risk is 2099.38867386 : iteration 29881  
the risk is 2099.37608138 : iteration 29882  
the risk is 2099.36345328 : iteration 29883  
the risk is 2099.38562426 : iteration 29884  
the risk is 2099.40787299 : iteration 29885  
the risk is 2099.39574009 : iteration 29886  
the risk is 2099.38304236 : iteration 29887  
the risk is 2099.405878 : iteration 29888  
the risk is 2099.42623314 : iteration 29889  
the risk is 2099.44855462 : iteration 29890  
the risk is 2099.43691849 : iteration 29891  
the risk is 2099.42429873 : iteration 29892  
the risk is 2099.41165424 : iteration 29893  
the risk is 2099.39843731 : iteration 29894  
the risk is 2099.38630565 : iteration 29895

the risk is 2099.40812106 : iteration 29896  
the risk is 2099.39574408 : iteration 29897  
the risk is 2099.41948942 : iteration 29898  
the risk is 2099.40735118 : iteration 29899  
the risk is 2099.39521662 : iteration 29900  
the risk is 2099.41798879 : iteration 29901  
the risk is 2099.40483949 : iteration 29902  
the risk is 2099.42605973 : iteration 29903  
the risk is 2099.44850832 : iteration 29904  
the risk is 2099.46926379 : iteration 29905  
the risk is 2099.45678218 : iteration 29906  
the risk is 2099.44412466 : iteration 29907  
the risk is 2099.43197674 : iteration 29908  
the risk is 2099.41932667 : iteration 29909  
the risk is 2099.44141956 : iteration 29910  
the risk is 2099.46217393 : iteration 29911  
the risk is 2099.44848654 : iteration 29912  
the risk is 2099.43619931 : iteration 29913  
the risk is 2099.45847897 : iteration 29914  
the risk is 2099.44557215 : iteration 29915  
the risk is 2099.43260167 : iteration 29916  
the risk is 2099.45488041 : iteration 29917  
the risk is 2099.47757328 : iteration 29918  
the risk is 2099.46467451 : iteration 29919  
the risk is 2099.48793961 : iteration 29920  
the risk is 2099.47610267 : iteration 29921  
the risk is 2099.46381957 : iteration 29922  
the risk is 2099.4863338 : iteration 29923  
the risk is 2099.4733436 : iteration 29924  
the risk is 2099.46118411 : iteration 29925  
the risk is 2099.48417805 : iteration 29926  
the risk is 2099.50495431 : iteration 29927  
the risk is 2099.49227871 : iteration 29928  
the risk is 2099.51530346 : iteration 29929  
the risk is 2099.5376201 : iteration 29930  
the risk is 2099.52529535 : iteration 29931  
the risk is 2099.51310708 : iteration 29932  
the risk is 2099.50159819 : iteration 29933  
the risk is 2099.52390844 : iteration 29934  
the risk is 2099.54712408 : iteration 29935  
the risk is 2099.53494219 : iteration 29936  
the risk is 2099.52173422 : iteration 29937  
the risk is 2099.50923337 : iteration 29938  
the risk is 2099.4970625 : iteration 29939  
the risk is 2099.4843033 : iteration 29940  
the risk is 2099.47218331 : iteration 29941  
the risk is 2099.4944815 : iteration 29942  
the risk is 2099.48262798 : iteration 29943  
the risk is 2099.4692947 : iteration 29944  
the risk is 2099.45618018 : iteration 29945  
the risk is 2099.44355889 : iteration 29946  
the risk is 2099.46733501 : iteration 29947  
the risk is 2099.48915674 : iteration 29948  
the risk is 2099.47665361 : iteration 29949

the risk is 2099.46398546 : iteration 29950  
the risk is 2099.45182715 : iteration 29951  
the risk is 2099.43939032 : iteration 29952  
the risk is 2099.46167567 : iteration 29953  
the risk is 2099.48244462 : iteration 29954  
the risk is 2099.469774 : iteration 29955  
the risk is 2099.45665782 : iteration 29956  
the risk is 2099.44473125 : iteration 29957  
the risk is 2099.43191747 : iteration 29958  
the risk is 2099.45189557 : iteration 29959  
the risk is 2099.47233093 : iteration 29960  
the risk is 2099.46016775 : iteration 29961  
the risk is 2099.4475425 : iteration 29962  
the risk is 2099.43506049 : iteration 29963  
the risk is 2099.45804901 : iteration 29964  
the risk is 2099.48040111 : iteration 29965  
the risk is 2099.46771892 : iteration 29966  
the risk is 2099.48816267 : iteration 29967  
the risk is 2099.47569469 : iteration 29968  
the risk is 2099.46231486 : iteration 29969  
the risk is 2099.44914244 : iteration 29970  
the risk is 2099.4364409 : iteration 29971  
the risk is 2099.42442745 : iteration 29972  
the risk is 2099.41223704 : iteration 29973  
the risk is 2099.40031315 : iteration 29974  
the risk is 2099.38766452 : iteration 29975  
the risk is 2099.37501964 : iteration 29976  
the risk is 2099.36285995 : iteration 29977  
the risk is 2099.34991765 : iteration 29978  
the risk is 2099.37047535 : iteration 29979  
the risk is 2099.35866724 : iteration 29980  
the risk is 2099.34653594 : iteration 29981  
the risk is 2099.33298303 : iteration 29982  
the risk is 2099.35505313 : iteration 29983  
the risk is 2099.34294781 : iteration 29984  
the risk is 2099.32999438 : iteration 29985  
the risk is 2099.31740012 : iteration 29986  
the risk is 2099.33811277 : iteration 29987  
the risk is 2099.32590296 : iteration 29988  
the risk is 2099.31378006 : iteration 29989  
the risk is 2099.30166082 : iteration 29990  
the risk is 2099.32389443 : iteration 29991  
the risk is 2099.31120034 : iteration 29992  
the risk is 2099.29829192 : iteration 29993  
the risk is 2099.28467202 : iteration 29994  
the risk is 2099.30780137 : iteration 29995  
the risk is 2099.29442467 : iteration 29996  
the risk is 2099.31464708 : iteration 29997  
the risk is 2099.33758979 : iteration 29998  
the risk is 2099.32546177 : iteration 29999  
the risk is 2099.345999 : iteration 30000

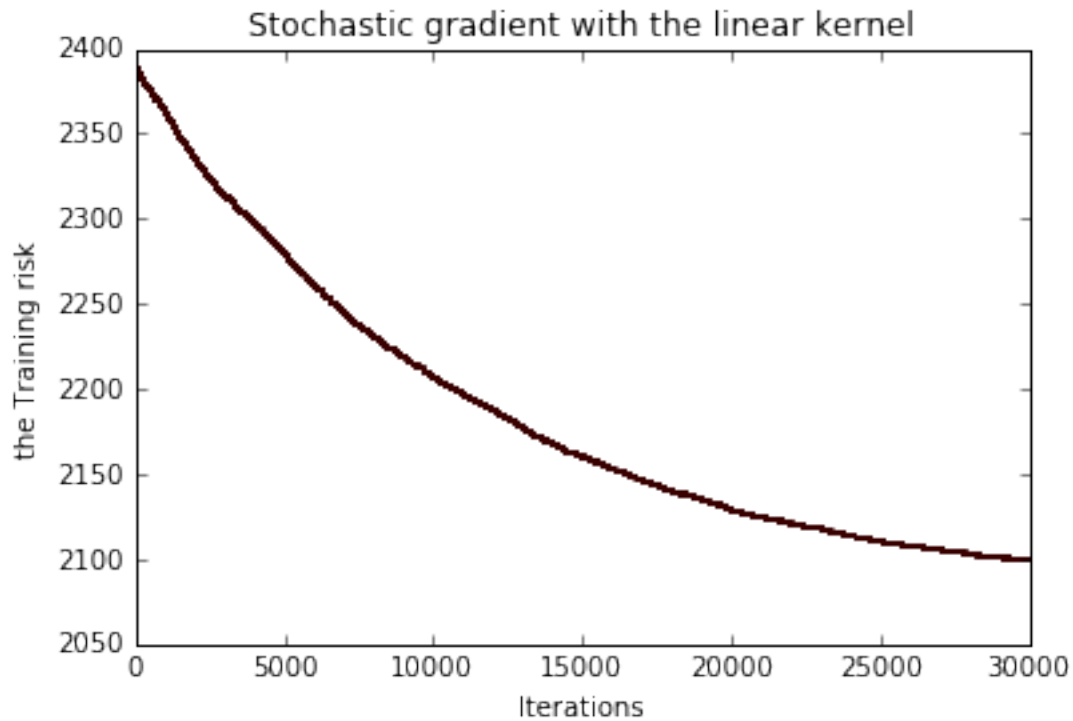
After 30000 iterations, the training risk decreases down to 2099.345999 in logistic ridge regression with

the linear kernel. We plot the training risk over the number of iterations.

```
In [119]: xpos = np.arange(len(training_risk_kernel_linear[0]))+ 1

plt.plot(xpos, training_risk_kernel_linear[0], 'ro', ms =1)
plt.xlabel('Iterations')
plt.ylabel('the Training risk')
plt.title('Stochastic gradient with the linear kernel')

plt.show()
```



### Validation risk

```
In [118]: validation_risk_kernel_linear = stochastic_gradient_kernel_print(sp_xtrain0, sp_xvalid,
                                                                           sp_ytrain0, sp_yvalid, 19, 1e-5, 1e-3,
```

```
the risk is 1194.98573929 : iteration 1
the risk is 1194.94743648 : iteration 2
the risk is 1194.90757046 : iteration 3
the risk is 1194.86825616 : iteration 4
the risk is 1194.83066519 : iteration 5
the risk is 1194.86830714 : iteration 6
the risk is 1194.90578659 : iteration 7
the risk is 1194.86656239 : iteration 8
the risk is 1194.82790979 : iteration 9
the risk is 1194.7902374 : iteration 10
the risk is 1194.82789426 : iteration 11
```

the risk is 1194.78866059 : iteration 12  
the risk is 1194.75099442 : iteration 13  
the risk is 1194.71231574 : iteration 14  
the risk is 1194.67429501 : iteration 15  
the risk is 1194.63610571 : iteration 16  
the risk is 1194.59732933 : iteration 17  
the risk is 1194.63613803 : iteration 18  
the risk is 1194.59681978 : iteration 19  
the risk is 1194.55797521 : iteration 20  
the risk is 1194.5186396 : iteration 21  
the risk is 1194.48101718 : iteration 22  
the risk is 1194.44334113 : iteration 23  
the risk is 1194.48100816 : iteration 24  
the risk is 1194.44237437 : iteration 25  
the risk is 1194.4047644 : iteration 26  
the risk is 1194.36614343 : iteration 27  
the risk is 1194.32854592 : iteration 28  
the risk is 1194.28864155 : iteration 29  
the risk is 1194.32625587 : iteration 30  
the risk is 1194.36386511 : iteration 31  
the risk is 1194.32626774 : iteration 32  
the risk is 1194.28867654 : iteration 33  
the risk is 1194.25022587 : iteration 34  
the risk is 1194.21259977 : iteration 35  
the risk is 1194.25079382 : iteration 36  
the risk is 1194.21293097 : iteration 37  
the risk is 1194.17325168 : iteration 38  
the risk is 1194.21085085 : iteration 39  
the risk is 1194.25035124 : iteration 40  
the risk is 1194.2880057 : iteration 41  
the risk is 1194.25000998 : iteration 42  
the risk is 1194.21023081 : iteration 43  
the risk is 1194.24766644 : iteration 44  
the risk is 1194.20838193 : iteration 45  
the risk is 1194.17074485 : iteration 46  
the risk is 1194.13010383 : iteration 47  
the risk is 1194.16850797 : iteration 48  
the risk is 1194.20686011 : iteration 49  
the risk is 1194.1689214 : iteration 50  
the risk is 1194.20807475 : iteration 51  
the risk is 1194.17050217 : iteration 52  
the risk is 1194.20815174 : iteration 53  
the risk is 1194.17021289 : iteration 54  
the risk is 1194.13163051 : iteration 55  
the risk is 1194.09407037 : iteration 56  
the risk is 1194.05540414 : iteration 57  
the risk is 1194.01757282 : iteration 58  
the risk is 1194.05521244 : iteration 59  
the risk is 1194.01738122 : iteration 60  
the risk is 1193.97955633 : iteration 61  
the risk is 1193.94202108 : iteration 62  
the risk is 1193.90347701 : iteration 63  
the risk is 1193.86595419 : iteration 64  
the risk is 1193.90353353 : iteration 65

the risk is 1193.94242885 : iteration 66  
the risk is 1193.90293191 : iteration 67  
the risk is 1193.94034718 : iteration 68  
the risk is 1193.90303382 : iteration 69  
the risk is 1193.86551092 : iteration 70  
the risk is 1193.82732906 : iteration 71  
the risk is 1193.78945274 : iteration 72  
the risk is 1193.82686955 : iteration 73  
the risk is 1193.86551737 : iteration 74  
the risk is 1193.82733546 : iteration 75  
the risk is 1193.78957452 : iteration 76  
the risk is 1193.75208323 : iteration 77  
the risk is 1193.71458504 : iteration 78  
the risk is 1193.67709302 : iteration 79  
the risk is 1193.71458983 : iteration 80  
the risk is 1193.6760836 : iteration 81  
the risk is 1193.71354498 : iteration 82  
the risk is 1193.67408171 : iteration 83  
the risk is 1193.63558211 : iteration 84  
the risk is 1193.59756288 : iteration 85  
the risk is 1193.5590761 : iteration 86  
the risk is 1193.52109201 : iteration 87  
the risk is 1193.48190416 : iteration 88  
the risk is 1193.51951785 : iteration 89  
the risk is 1193.4801703 : iteration 90  
the risk is 1193.51845674 : iteration 91  
the risk is 1193.5563509 : iteration 92  
the risk is 1193.51785047 : iteration 93  
the risk is 1193.48038976 : iteration 94  
the risk is 1193.51874765 : iteration 95  
the risk is 1193.47951194 : iteration 96  
the risk is 1193.44187679 : iteration 97  
the risk is 1193.48138288 : iteration 98  
the risk is 1193.44338365 : iteration 99  
the risk is 1193.40593502 : iteration 100  
the risk is 1193.36763398 : iteration 101  
the risk is 1193.32854617 : iteration 102  
the risk is 1193.28980851 : iteration 103  
the risk is 1193.2518734 : iteration 104  
the risk is 1193.21278037 : iteration 105  
the risk is 1193.17354548 : iteration 106  
the risk is 1193.13432004 : iteration 107  
the risk is 1193.09692162 : iteration 108  
the risk is 1193.13542542 : iteration 109  
the risk is 1193.09774469 : iteration 110  
the risk is 1193.13606437 : iteration 111  
the risk is 1193.09539183 : iteration 112  
the risk is 1193.05799948 : iteration 113  
the risk is 1193.01960216 : iteration 114  
the risk is 1192.9822222 : iteration 115  
the risk is 1192.9441855 : iteration 116  
the risk is 1192.90484441 : iteration 117  
the risk is 1192.86647291 : iteration 118  
the risk is 1192.90440796 : iteration 119

the risk is 1192.86650847 : iteration 120  
the risk is 1192.8291533 : iteration 121  
the risk is 1192.79152263 : iteration 122  
the risk is 1192.82908267 : iteration 123  
the risk is 1192.79145209 : iteration 124  
the risk is 1192.75410924 : iteration 125  
the risk is 1192.79132619 : iteration 126  
the risk is 1192.82939076 : iteration 127  
the risk is 1192.79103155 : iteration 128  
the risk is 1192.7536886 : iteration 129  
the risk is 1192.79177715 : iteration 130  
the risk is 1192.75443413 : iteration 131  
the risk is 1192.71554975 : iteration 132  
the risk is 1192.67624919 : iteration 133  
the risk is 1192.63759511 : iteration 134  
the risk is 1192.67512038 : iteration 135  
the risk is 1192.71431854 : iteration 136  
the risk is 1192.67645016 : iteration 137  
the risk is 1192.63757084 : iteration 138  
the risk is 1192.67469918 : iteration 139  
the risk is 1192.63737469 : iteration 140  
the risk is 1192.59977487 : iteration 141  
the risk is 1192.6380279 : iteration 142  
the risk is 1192.59737889 : iteration 143  
the risk is 1192.55912354 : iteration 144  
the risk is 1192.52177064 : iteration 145  
the risk is 1192.48447089 : iteration 146  
the risk is 1192.44566151 : iteration 147  
the risk is 1192.40851766 : iteration 148  
the risk is 1192.37110356 : iteration 149  
the risk is 1192.40859754 : iteration 150  
the risk is 1192.36977244 : iteration 151  
the risk is 1192.33138265 : iteration 152  
the risk is 1192.29410043 : iteration 153  
the risk is 1192.25583055 : iteration 154  
the risk is 1192.2166207 : iteration 155  
the risk is 1192.17836372 : iteration 156  
the risk is 1192.14094095 : iteration 157  
the risk is 1192.10370356 : iteration 158  
the risk is 1192.14100617 : iteration 159  
the risk is 1192.10004047 : iteration 160  
the risk is 1192.13756309 : iteration 161  
the risk is 1192.09931905 : iteration 162  
the risk is 1192.0623054 : iteration 163  
the risk is 1192.10058911 : iteration 164  
the risk is 1192.06282182 : iteration 165  
the risk is 1192.02559675 : iteration 166  
the risk is 1191.98837782 : iteration 167  
the risk is 1191.95015883 : iteration 168  
the risk is 1191.91258885 : iteration 169  
the risk is 1191.95149234 : iteration 170  
the risk is 1191.91357084 : iteration 171  
the risk is 1191.87495119 : iteration 172  
the risk is 1191.83651693 : iteration 173



the risk is 1191.79768943 : iteration 174  
the risk is 1191.76022744 : iteration 175  
the risk is 1191.72277175 : iteration 176  
the risk is 1191.68535063 : iteration 177  
the risk is 1191.64658935 : iteration 178  
the risk is 1191.68407412 : iteration 179  
the risk is 1191.7225597 : iteration 180  
the risk is 1191.76129797 : iteration 181  
the risk is 1191.72136286 : iteration 182  
the risk is 1191.68393794 : iteration 183  
the risk is 1191.64677454 : iteration 184  
the risk is 1191.60786579 : iteration 185  
the risk is 1191.56917978 : iteration 186  
the risk is 1191.53225291 : iteration 187  
the risk is 1191.49345059 : iteration 188  
the risk is 1191.53070401 : iteration 189  
the risk is 1191.49305302 : iteration 190  
the risk is 1191.45491641 : iteration 191  
the risk is 1191.41575805 : iteration 192  
the risk is 1191.45300613 : iteration 193  
the risk is 1191.41487611 : iteration 194  
the risk is 1191.37775615 : iteration 195  
the risk is 1191.34064231 : iteration 196  
the risk is 1191.37818067 : iteration 197  
the risk is 1191.33781804 : iteration 198  
the risk is 1191.29887094 : iteration 199  
the risk is 1191.26120279 : iteration 200  
the risk is 1191.22293752 : iteration 201  
the risk is 1191.18478692 : iteration 202  
the risk is 1191.22314212 : iteration 203  
the risk is 1191.18428117 : iteration 204  
the risk is 1191.14678137 : iteration 205  
the risk is 1191.1092646 : iteration 206  
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the risk is 1032.51336682 : iteration 29626  
the risk is 1032.5058923 : iteration 29627  
the risk is 1032.49854209 : iteration 29628  
the risk is 1032.49119408 : iteration 29629  
the risk is 1032.50508882 : iteration 29630  
the risk is 1032.49751282 : iteration 29631  
the risk is 1032.51141039 : iteration 29632  
the risk is 1032.52503262 : iteration 29633  
the risk is 1032.5176765 : iteration 29634  
the risk is 1032.53158302 : iteration 29635  
the risk is 1032.52422495 : iteration 29636  
the risk is 1032.53813431 : iteration 29637  
the risk is 1032.5303827 : iteration 29638  
the risk is 1032.52280296 : iteration 29639  
the risk is 1032.51556753 : iteration 29640  
the risk is 1032.52947328 : iteration 29641  
the risk is 1032.52182371 : iteration 29642  
the risk is 1032.51395215 : iteration 29643  
the risk is 1032.50689703 : iteration 29644  
the risk is 1032.49954606 : iteration 29645  
the risk is 1032.51345494 : iteration 29646  
the risk is 1032.52667103 : iteration 29647  
the risk is 1032.51931382 : iteration 29648  
the risk is 1032.53263694 : iteration 29649  
the risk is 1032.52511149 : iteration 29650  
the risk is 1032.51753259 : iteration 29651  
the risk is 1032.50995592 : iteration 29652  
the risk is 1032.50260326 : iteration 29653  
the risk is 1032.49486433 : iteration 29654  
the risk is 1032.50847991 : iteration 29655  
the risk is 1032.52223104 : iteration 29656  
the risk is 1032.51487433 : iteration 29657

the risk is 1032.52925736 : iteration 29658  
the risk is 1032.52148478 : iteration 29659  
the risk is 1032.5139084 : iteration 29660  
the risk is 1032.50646402 : iteration 29661  
the risk is 1032.49851248 : iteration 29662  
the risk is 1032.49106359 : iteration 29663  
the risk is 1032.48347684 : iteration 29664  
the risk is 1032.47595875 : iteration 29665  
the risk is 1032.46839169 : iteration 29666  
the risk is 1032.46061309 : iteration 29667  
the risk is 1032.45310159 : iteration 29668  
the risk is 1032.44554319 : iteration 29669  
the risk is 1032.43798703 : iteration 29670  
the risk is 1032.43063616 : iteration 29671  
the risk is 1032.42336641 : iteration 29672  
the risk is 1032.41579867 : iteration 29673  
the risk is 1032.40818638 : iteration 29674  
the risk is 1032.42204858 : iteration 29675  
the risk is 1032.41466804 : iteration 29676  
the risk is 1032.40727822 : iteration 29677  
the risk is 1032.4207164 : iteration 29678  
the risk is 1032.4129341 : iteration 29679  
the risk is 1032.40560862 : iteration 29680  
the risk is 1032.41870755 : iteration 29681  
the risk is 1032.43156026 : iteration 29682  
the risk is 1032.44524956 : iteration 29683  
the risk is 1032.43769211 : iteration 29684  
the risk is 1032.43029415 : iteration 29685  
the risk is 1032.42296265 : iteration 29686  
the risk is 1032.41558026 : iteration 29687  
the risk is 1032.40825317 : iteration 29688  
the risk is 1032.40070684 : iteration 29689  
the risk is 1032.39321173 : iteration 29690  
the risk is 1032.40754315 : iteration 29691  
the risk is 1032.39999691 : iteration 29692  
the risk is 1032.41309481 : iteration 29693  
the risk is 1032.40576804 : iteration 29694  
the risk is 1032.39822204 : iteration 29695  
the risk is 1032.41250755 : iteration 29696  
the risk is 1032.42519056 : iteration 29697  
the risk is 1032.4178598 : iteration 29698  
the risk is 1032.4101121 : iteration 29699  
the risk is 1032.40241896 : iteration 29700  
the risk is 1032.39468772 : iteration 29701  
the risk is 1032.38706555 : iteration 29702  
the risk is 1032.37913457 : iteration 29703  
the risk is 1032.37116913 : iteration 29704  
the risk is 1032.36358328 : iteration 29705  
the risk is 1032.35627008 : iteration 29706  
the risk is 1032.34901492 : iteration 29707  
the risk is 1032.34113603 : iteration 29708  
the risk is 1032.33370131 : iteration 29709  
the risk is 1032.32639687 : iteration 29710  
the risk is 1032.33937439 : iteration 29711

the risk is 1032.35349033 : iteration 29712  
the risk is 1032.34647798 : iteration 29713  
the risk is 1032.36071595 : iteration 29714  
the risk is 1032.35340325 : iteration 29715  
the risk is 1032.34532965 : iteration 29716  
the risk is 1032.337312 : iteration 29717  
the risk is 1032.35038546 : iteration 29718  
the risk is 1032.36339172 : iteration 29719  
the risk is 1032.37710757 : iteration 29720  
the risk is 1032.39097216 : iteration 29721  
the risk is 1032.40483321 : iteration 29722  
the risk is 1032.41758708 : iteration 29723  
the risk is 1032.41008358 : iteration 29724  
the risk is 1032.42437533 : iteration 29725  
the risk is 1032.417042 : iteration 29726  
the risk is 1032.40964391 : iteration 29727  
the risk is 1032.42361492 : iteration 29728  
the risk is 1032.4374911 : iteration 29729  
the risk is 1032.43004776 : iteration 29730  
the risk is 1032.44316378 : iteration 29731  
the risk is 1032.43553301 : iteration 29732  
the risk is 1032.42797247 : iteration 29733  
the risk is 1032.44185107 : iteration 29734  
the risk is 1032.43436954 : iteration 29735  
the risk is 1032.4473162 : iteration 29736  
the risk is 1032.43985323 : iteration 29737  
the risk is 1032.43227649 : iteration 29738  
the risk is 1032.42493985 : iteration 29739  
the risk is 1032.41763985 : iteration 29740  
the risk is 1032.43151468 : iteration 29741  
the risk is 1032.4237905 : iteration 29742  
the risk is 1032.43740225 : iteration 29743  
the risk is 1032.43006387 : iteration 29744  
the risk is 1032.44384414 : iteration 29745  
the risk is 1032.43603839 : iteration 29746  
the risk is 1032.42906469 : iteration 29747  
the risk is 1032.42103591 : iteration 29748  
the risk is 1032.41347876 : iteration 29749  
the risk is 1032.40614723 : iteration 29750  
the risk is 1032.41988457 : iteration 29751  
the risk is 1032.43375344 : iteration 29752  
the risk is 1032.44826026 : iteration 29753  
the risk is 1032.44067175 : iteration 29754  
the risk is 1032.43331387 : iteration 29755  
the risk is 1032.42573665 : iteration 29756  
the risk is 1032.41817984 : iteration 29757  
the risk is 1032.41062526 : iteration 29758  
the risk is 1032.42449825 : iteration 29759  
the risk is 1032.43752326 : iteration 29760  
the risk is 1032.45181812 : iteration 29761  
the risk is 1032.44440758 : iteration 29762  
the risk is 1032.43679463 : iteration 29763  
the risk is 1032.42945549 : iteration 29764  
the risk is 1032.42196438 : iteration 29765

the risk is 1032.41390109 : iteration 29766  
the risk is 1032.4285302 : iteration 29767  
the risk is 1032.42112648 : iteration 29768  
the risk is 1032.43551536 : iteration 29769  
the risk is 1032.44897215 : iteration 29770  
the risk is 1032.44162891 : iteration 29771  
the risk is 1032.45599148 : iteration 29772  
the risk is 1032.46963061 : iteration 29773  
the risk is 1032.46205959 : iteration 29774  
the risk is 1032.47659614 : iteration 29775  
the risk is 1032.49064197 : iteration 29776  
the risk is 1032.48328616 : iteration 29777  
the risk is 1032.47571094 : iteration 29778  
the risk is 1032.48960284 : iteration 29779  
the risk is 1032.50317022 : iteration 29780  
the risk is 1032.49581045 : iteration 29781  
the risk is 1032.48788215 : iteration 29782  
the risk is 1032.47982885 : iteration 29783  
the risk is 1032.47203808 : iteration 29784  
the risk is 1032.46456512 : iteration 29785  
the risk is 1032.4784641 : iteration 29786  
the risk is 1032.47077529 : iteration 29787  
the risk is 1032.48441122 : iteration 29788  
the risk is 1032.49831898 : iteration 29789  
the risk is 1032.49089568 : iteration 29790  
the risk is 1032.50423713 : iteration 29791  
the risk is 1032.49688887 : iteration 29792  
the risk is 1032.51080238 : iteration 29793  
the risk is 1032.50326707 : iteration 29794  
the risk is 1032.51642088 : iteration 29795  
the risk is 1032.50860135 : iteration 29796  
the risk is 1032.52169156 : iteration 29797  
the risk is 1032.51423736 : iteration 29798  
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the risk is 1032.52056885 : iteration 29800  
the risk is 1032.51320571 : iteration 29801  
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the risk is 1032.55401463 : iteration 29804  
the risk is 1032.54613224 : iteration 29805  
the risk is 1032.53908738 : iteration 29806  
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the risk is 1032.50776116 : iteration 29810  
the risk is 1032.5003974 : iteration 29811  
the risk is 1032.49281437 : iteration 29812  
the risk is 1032.48517733 : iteration 29813  
the risk is 1032.47739764 : iteration 29814  
the risk is 1032.47004265 : iteration 29815  
the risk is 1032.4626368 : iteration 29816  
the risk is 1032.45523769 : iteration 29817  
the risk is 1032.46885278 : iteration 29818  
the risk is 1032.46121476 : iteration 29819

the risk is 1032.47421973 : iteration 29820  
the risk is 1032.46627704 : iteration 29821  
the risk is 1032.45870303 : iteration 29822  
the risk is 1032.47157728 : iteration 29823  
the risk is 1032.46388133 : iteration 29824  
the risk is 1032.45642528 : iteration 29825  
the risk is 1032.46990401 : iteration 29826  
the risk is 1032.46252998 : iteration 29827  
the risk is 1032.45476083 : iteration 29828  
the risk is 1032.46789864 : iteration 29829  
the risk is 1032.45981601 : iteration 29830  
the risk is 1032.47269267 : iteration 29831  
the risk is 1032.46478904 : iteration 29832  
the risk is 1032.45736775 : iteration 29833  
the risk is 1032.47111736 : iteration 29834  
the risk is 1032.46376133 : iteration 29835  
the risk is 1032.45640749 : iteration 29836  
the risk is 1032.44905585 : iteration 29837  
the risk is 1032.46219259 : iteration 29838  
the risk is 1032.45483897 : iteration 29839  
the risk is 1032.4679786 : iteration 29840  
the risk is 1032.46101695 : iteration 29841  
the risk is 1032.45366363 : iteration 29842  
the risk is 1032.44609117 : iteration 29843  
the risk is 1032.43835474 : iteration 29844  
the risk is 1032.43078674 : iteration 29845  
the risk is 1032.42329977 : iteration 29846  
the risk is 1032.41589334 : iteration 29847  
the risk is 1032.43053388 : iteration 29848  
the risk is 1032.44432588 : iteration 29849  
the risk is 1032.43676937 : iteration 29850  
the risk is 1032.44990149 : iteration 29851  
the risk is 1032.44235391 : iteration 29852  
the risk is 1032.45522001 : iteration 29853  
the risk is 1032.44734564 : iteration 29854  
the risk is 1032.43983261 : iteration 29855  
the risk is 1032.43260951 : iteration 29856  
the risk is 1032.44574093 : iteration 29857  
the risk is 1032.43841494 : iteration 29858  
the risk is 1032.43100013 : iteration 29859  
the risk is 1032.4233716 : iteration 29860  
the risk is 1032.43676272 : iteration 29861  
the risk is 1032.42919365 : iteration 29862  
the risk is 1032.42178113 : iteration 29863  
the risk is 1032.41446276 : iteration 29864  
the risk is 1032.42758718 : iteration 29865  
the risk is 1032.41993828 : iteration 29866  
the risk is 1032.41237202 : iteration 29867  
the risk is 1032.42522125 : iteration 29868  
the risk is 1032.41775429 : iteration 29869  
the risk is 1032.4101127 : iteration 29870  
the risk is 1032.4236575 : iteration 29871  
the risk is 1032.4155786 : iteration 29872  
the risk is 1032.42934059 : iteration 29873

the risk is 1032.42162311 : iteration 29874  
the risk is 1032.43475277 : iteration 29875  
the risk is 1032.42733688 : iteration 29876  
the risk is 1032.41976901 : iteration 29877  
the risk is 1032.41206315 : iteration 29878  
the risk is 1032.40472076 : iteration 29879  
the risk is 1032.39715953 : iteration 29880  
the risk is 1032.38982153 : iteration 29881  
the risk is 1032.38226267 : iteration 29882  
the risk is 1032.37470808 : iteration 29883  
the risk is 1032.38851573 : iteration 29884  
the risk is 1032.40239539 : iteration 29885  
the risk is 1032.39505551 : iteration 29886  
the risk is 1032.38751443 : iteration 29887  
the risk is 1032.40153803 : iteration 29888  
the risk is 1032.41439116 : iteration 29889  
the risk is 1032.42824983 : iteration 29890  
the risk is 1032.42112095 : iteration 29891  
the risk is 1032.41359133 : iteration 29892  
the risk is 1032.40602638 : iteration 29893  
the risk is 1032.39814824 : iteration 29894  
the risk is 1032.39080875 : iteration 29895  
the risk is 1032.4044016 : iteration 29896  
the risk is 1032.39691767 : iteration 29897  
the risk is 1032.41155724 : iteration 29898  
the risk is 1032.4042136 : iteration 29899  
the risk is 1032.39687215 : iteration 29900  
the risk is 1032.41096481 : iteration 29901  
the risk is 1032.40309602 : iteration 29902  
the risk is 1032.41650371 : iteration 29903  
the risk is 1032.430467 : iteration 29904  
the risk is 1032.44360456 : iteration 29905  
the risk is 1032.43607825 : iteration 29906  
the risk is 1032.42850486 : iteration 29907  
the risk is 1032.42115498 : iteration 29908  
the risk is 1032.41358603 : iteration 29909  
the risk is 1032.42740384 : iteration 29910  
the risk is 1032.44054107 : iteration 29911  
the risk is 1032.43241086 : iteration 29912  
the risk is 1032.42498685 : iteration 29913  
the risk is 1032.43888707 : iteration 29914  
the risk is 1032.43115515 : iteration 29915  
the risk is 1032.42341617 : iteration 29916  
the risk is 1032.43731604 : iteration 29917  
the risk is 1032.45125773 : iteration 29918  
the risk is 1032.44354107 : iteration 29919  
the risk is 1032.45786813 : iteration 29920  
the risk is 1032.45062772 : iteration 29921  
the risk is 1032.44324413 : iteration 29922  
the risk is 1032.45728372 : iteration 29923  
the risk is 1032.44950192 : iteration 29924  
the risk is 1032.44214429 : iteration 29925  
the risk is 1032.45647868 : iteration 29926  
the risk is 1032.46963027 : iteration 29927

the risk is 1032.46204499 : iteration 29928  
the risk is 1032.47636958 : iteration 29929  
the risk is 1032.49029342 : iteration 29930  
the risk is 1032.48289368 : iteration 29931  
the risk is 1032.47556009 : iteration 29932  
the risk is 1032.46849114 : iteration 29933  
the risk is 1032.48241133 : iteration 29934  
the risk is 1032.49684531 : iteration 29935  
the risk is 1032.48947354 : iteration 29936  
the risk is 1032.48165303 : iteration 29937  
the risk is 1032.47411362 : iteration 29938  
the risk is 1032.46674844 : iteration 29939  
the risk is 1032.45911269 : iteration 29940  
the risk is 1032.45178412 : iteration 29941  
the risk is 1032.46569742 : iteration 29942  
the risk is 1032.4584881 : iteration 29943  
the risk is 1032.45054689 : iteration 29944  
the risk is 1032.44275216 : iteration 29945  
the risk is 1032.4351731 : iteration 29946  
the risk is 1032.4498345 : iteration 29947  
the risk is 1032.46354483 : iteration 29948  
the risk is 1032.45604498 : iteration 29949  
the risk is 1032.44846327 : iteration 29950  
the risk is 1032.44110522 : iteration 29951  
the risk is 1032.43361085 : iteration 29952  
the risk is 1032.44751699 : iteration 29953  
the risk is 1032.46066585 : iteration 29954  
the risk is 1032.4530824 : iteration 29955  
the risk is 1032.44528619 : iteration 29956  
the risk is 1032.43801927 : iteration 29957  
the risk is 1032.43037625 : iteration 29958  
the risk is 1032.44311393 : iteration 29959  
the risk is 1032.45599782 : iteration 29960  
the risk is 1032.44863635 : iteration 29961  
the risk is 1032.44105419 : iteration 29962  
the risk is 1032.43352516 : iteration 29963  
the risk is 1032.44785868 : iteration 29964  
the risk is 1032.46187581 : iteration 29965  
the risk is 1032.45432578 : iteration 29966  
the risk is 1032.46721523 : iteration 29967  
the risk is 1032.45972121 : iteration 29968  
the risk is 1032.4518436 : iteration 29969  
the risk is 1032.44395778 : iteration 29970  
the risk is 1032.43645244 : iteration 29971  
the risk is 1032.42914006 : iteration 29972  
the risk is 1032.42175108 : iteration 29973  
the risk is 1032.41450262 : iteration 29974  
the risk is 1032.40693162 : iteration 29975  
the risk is 1032.39936285 : iteration 29976  
the risk is 1032.39199909 : iteration 29977  
the risk is 1032.38437522 : iteration 29978  
the risk is 1032.39736686 : iteration 29979  
the risk is 1032.39014138 : iteration 29980  
the risk is 1032.38279844 : iteration 29981



```

the risk is 1032.3747848 : iteration 29982
the risk is 1032.38861913 : iteration 29983
the risk is 1032.38133567 : iteration 29984
the risk is 1032.37357353 : iteration 29985
the risk is 1032.36602824 : iteration 29986
the risk is 1032.37914496 : iteration 29987
the risk is 1032.37173782 : iteration 29988
the risk is 1032.36439965 : iteration 29989
the risk is 1032.35706368 : iteration 29990
the risk is 1032.37094066 : iteration 29991
the risk is 1032.36338388 : iteration 29992
the risk is 1032.35567309 : iteration 29993
the risk is 1032.34763211 : iteration 29994
the risk is 1032.36201619 : iteration 29995
the risk is 1032.35408391 : iteration 29996
the risk is 1032.36694375 : iteration 29997
the risk is 1032.38125155 : iteration 29998
the risk is 1032.3739098 : iteration 29999
the risk is 1032.38697496 : iteration 30000

```

The validation risk, which initially was 1194.9857, decreases down to 1032.38697. We plot the validation risk over the number of iterations.

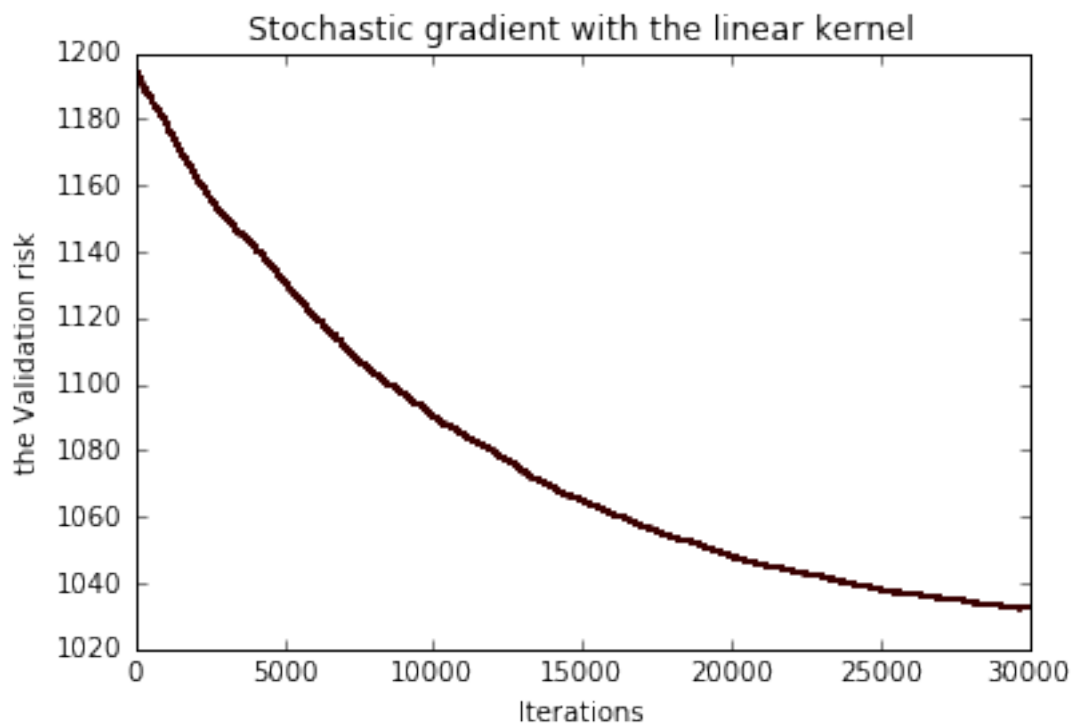
```

In [121]: xpos = np.arange(len(validation_risk_kernel_linear[0]))+ 1

plt.plot(xpos, validation_risk_kernel_linear[0], 'ro', ms =1)
plt.xlabel('Iterations')
plt.ylabel('the Validation risk')
plt.title('Stochastic gradient with the linear kernel')

plt.show()

```



**Does the quadratic kernel overfit the data?** According to the validation risk, the quadratic kernel does not appear to overfit the data. It gives lower validation risk than the linear kernel and the proportions of numbers of data and the total risk are almost the same in the validation risk and the training risk.

**For each kernel, should you decrease or increase  $\lambda$  to try to improve performance?**

```
In [123]: tenfold_cv_(17, 1e-5, 1e-3, 500, linear_K)
```

```
Out[123]: 231.92511545177331
```

```
In [126]: tenfold_cv_(17, 1e-5, 1e-2, 500, linear_K)
```

```
Out[126]: 231.92515041100859
```

```
In [128]: tenfold_cv_(17, 1e-5, 1, 500, linear_K)
```

```
Out[128]: 231.92902977056451
```

```
In [130]: tenfold_cv_(17, 1e-5, 10, 500, linear_K)
```

```
Out[130]: 231.96726038354353
```

```
In [132]: tenfold_cv_(17, 1e-5, 1e-5, 500, linear_K)
```

```
Out[132]: 231.92511160659714
```

```
In [133]: tenfold_cv_(19, 1e-5, 1e-5, 500, quadratic_K)
```

```
Out[133]: 232.09213334165784
```

```
In [134]: tenfold_cv_(19, 1e-5, 1e-3, 500, quadratic_K)
```

```
Out[134]: 232.09213791761448
```

```
In [135]: tenfold_cv_(19, 1e-5, 1e-1, 500, quadratic_K)
```

```
Out[135]: 232.09259575993278
```

```
In [137]: tenfold_cv_(19, 1e-5, 10, 500, quadratic_K)
```

```
Out[137]: 232.14075190405794
```

```
In [138]: tenfold_cv_(19, 1e-5, 100, 500, quadratic_K)
```

```
Out[138]: 232.72369887001486
```

We tried several different  $\lambda$  values in cross validation to see if they can improve performance. There was no noticeable decrease in the training risk compared to the training risk when  $\lambda$  is  $10^{-3}$ . This implies that there is no need to decrease or increase  $\lambda$  to improve performance.

**Kaggle** Based on training risks, or empirical risks, of each classifier, the best classifier is the logistic regression with batch gradient descent along with the third preprocessed data. We submitted the predicted labels to Kaggle that is derived by the best classifier, and the kaggle score was 0.78231.

```
In [35]: empirical_risk = logistic_with_batch_gradient(w_0, sp_xtrain3, sp_ytrain, 2e-3, 20000)
```

```
the risk is 3584.95721786 : iteration 1
the risk is 4106.32058967 : iteration 2
the risk is 3197.9220317 : iteration 3
the risk is 3967.10472524 : iteration 4
the risk is 2682.77707914 : iteration 5
the risk is 2754.18057516 : iteration 6
the risk is 2463.95894291 : iteration 7
the risk is 2417.07294157 : iteration 8
the risk is 2271.68299745 : iteration 9
the risk is 2223.3775302 : iteration 10
the risk is 2155.00067837 : iteration 11
the risk is 2123.86911517 : iteration 12
the risk is 2089.30249473 : iteration 13
the risk is 2069.74877244 : iteration 14
the risk is 2050.14159893 : iteration 15
the risk is 2037.07824844 : iteration 16
the risk is 2024.64782528 : iteration 17
the risk is 2015.31136188 : iteration 18
the risk is 2006.66649052 : iteration 19
the risk is 1999.60404597 : iteration 20
the risk is 1993.12895398 : iteration 21
the risk is 1987.52734896 : iteration 22
the risk is 1982.38003115 : iteration 23
the risk is 1977.75244675 : iteration 24
the risk is 1973.46265985 : iteration 25
the risk is 1969.50619858 : iteration 26
the risk is 1965.79984485 : iteration 27
the risk is 1962.32388258 : iteration 28
the risk is 1959.03723767 : iteration 29
the risk is 1955.92161228 : iteration 30
```

the risk is 1952.95475934 : iteration 31  
the risk is 1950.12295997 : iteration 32  
the risk is 1947.41288441 : iteration 33  
the risk is 1944.81469486 : iteration 34  
the risk is 1942.31956196 : iteration 35  
the risk is 1939.92027508 : iteration 36  
the risk is 1937.61043713 : iteration 37  
the risk is 1935.38451123 : iteration 38  
the risk is 1933.23752373 : iteration 39  
the risk is 1931.16502195 : iteration 40  
the risk is 1929.16294464 : iteration 41  
the risk is 1927.22758369 : iteration 42  
the risk is 1925.3555179 : iteration 43  
the risk is 1923.54358719 : iteration 44  
the risk is 1921.7888541 : iteration 45  
the risk is 1920.08858601 : iteration 46  
the risk is 1918.44023047 : iteration 47  
the risk is 1916.84140185 : iteration 48  
the risk is 1915.28986422 : iteration 49  
the risk is 1913.78352062 : iteration 50  
the risk is 1912.32040042 : iteration 51  
the risk is 1910.89865044 : iteration 52  
the risk is 1909.51652517 : iteration 53  
the risk is 1908.1723793 : iteration 54  
the risk is 1906.86465994 : iteration 55  
the risk is 1905.59190031 : iteration 56  
the risk is 1904.35271341 : iteration 57  
the risk is 1903.14578667 : iteration 58  
the risk is 1901.96987673 : iteration 59  
the risk is 1900.82380491 : iteration 60  
the risk is 1899.70645282 : iteration 61  
the risk is 1898.61675855 : iteration 62  
the risk is 1897.55371296 : iteration 63  
the risk is 1896.51635641 : iteration 64  
the risk is 1895.50377565 : iteration 65  
the risk is 1894.51510094 : iteration 66  
the risk is 1893.54950351 : iteration 67  
the risk is 1892.60619303 : iteration 68  
the risk is 1891.68441539 : iteration 69  
the risk is 1890.78345059 : iteration 70  
the risk is 1889.90261078 : iteration 71  
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the risk is 1819.056329 : iteration 19999
the risk is 1819.0563175 : iteration 20000

```

```

In [41]: temp = np.dot(sp_test, empirical_risk[1])
        prob = s(temp)
        sp_ytest = prob >= 1/2
        sp_ypred = np.asarray([[i+1, sp_ytest[i]] for i in np.arange(5857)])
        np.savetxt('sp_ytest2.csv', sp_ypred, fmt = '%1.1u' , delimiter = ',', header = 'Id,Category',c

```

### 1.3.1 Problem 4: Revisiting Logistic Regression

Recall that in logistic regression, the logistic function,  $s(z) = \frac{1}{1+e^{-z}}$ , is used to map output values between  $[0, 1]$ . Consider the function  $g(z) = \frac{\tanh(z)+1}{2}$ , where  $\tanh(z) = 2s(2z) - 1$ , that also maps outputs between  $[0, 1]$ . In this problem, we will explore using  $g(z)$  instead of the logistic function in logistic regression.

$$g(z) = \frac{\tanh(z) + 1}{2} = \frac{2s(2z)}{2} = \frac{2}{2 + 2e^{-2z}} = \frac{1}{2} + \frac{1 - e^{-2z}}{2 + 2e^{-2z}} = \frac{1}{2} + \frac{e^z - e^{-z}}{2(e^z + e^{-z})}.$$

and

$$g'(z) = \frac{dg(z)}{dz} = \frac{2(e^z + e^{-z})(e^z + e^{-z}) - 2(e^z - e^{-z})^2}{4(e^z + e^{-z})^2} = \frac{1}{2} - \frac{\tanh(z)^2}{2}$$

The appropriate batch gradient ascent update function is

$$\begin{aligned} w &\leftarrow w - \lambda \nabla J(w) \\ &= w - \lambda \sum_{i=1}^n \left( \frac{y_i g'(X_i \cdot w)}{g(X_i \cdot w)} - \frac{(1 - y_i) g'(X_i \cdot w)}{1 - g(X_i \cdot w)} \right) X_i \\ &= w - \lambda \sum_{i=1}^n \left( \frac{y_i \left( \frac{1}{2} - \frac{\tanh^2(X_i \cdot w)}{2} \right)}{\frac{\tanh(X_i \cdot w) + 1}{2}} - \frac{(1 - y_i) \left( \frac{1}{2} - \frac{\tanh^2(X_i \cdot w)}{2} \right)}{1 - \frac{\tanh(X_i \cdot w) + 1}{2}} \right) X_i \\ &= w - \lambda \sum_{i=1}^n (2y_i - 1 - \tanh(X_i \cdot w)) X_i \end{aligned}$$

### 1.3.2 Problem 5: Real World Spam Classification

Linear SVM can not utilize the new feature as he desired, because the spams usually are sent around midnight and number of milliseconds since the previous midnight are concentrated in either  $(0, t]$  or  $[86400000 - t, 86400000)$  for small  $t$  and linear SVM can not classify whether this new feature is either in one of the two intervals  $(0, t]$  and  $[86400000 - t, 86400000)$  or not. Therefore in order to classify the feature correctly with linear SVM, Daniel may want to try one of following methods: 1. introduce the new feature as the number of milliseconds since the previous noon, rather than since the previous midnight so that the time around midnight could have continuous possible values, 2. use quadratic kernel instead of linear kernel so that the linear SVM can classify whether the new feature is either in one of the two intervals  $(0, t]$  and  $[86400000 - t, 86400000)$  or not.