```
In [1]:
               numpy
                        np
           port pandas as pd
           port matplotlib.pyplot as plt
          sklearn.model_selection import train_test_split
          com sklearn.preprocessing import MinMaxScaler
          rom sklearn.decomposition import PCA
          rom sklearn.pipeline import Pipeline
            m sklearn.linear_model import LogisticRegression
          com sklearn.tree import DecisionTreeClassifier
             sklearn.ensemble import RandomForestClassifier
          port warnings
         warnings.filterwarnings('ignore')
        DiabetesData= pd.read_csv(r"C:\Users\lenka\Downloads\archive.zip")
        DiabetesData.head()
          6 148 72 35 0 33.6 0.627 50 1
Out[2]:
        0 1 85 66 29 0 26.6 0.351 31 0
        1 8 183 64 0 0 23.3 0.672 32 1
        2 1 89 66 23 94 28.1 0.167 21 0
        3 0 137 40 35 168 43.1 2.288 33 1
        4 5 116 74 0 0 25.6 0.201 30 0
In [3]:
        X=DiabetesData.iloc[:,0:8]
         y=DiabetesData.iloc[:,8]
In [4]:
        X_train,X_test,y_train,y_test=train_test_split(X,y,test_size=0.2,random_state=1
        LogisticRegressionPipeline = Pipeline([('myscaler',MinMaxScaler()),
                                               ('mypca', PCA(n_components=3)),
                                               ('logistic_classifier',LogisticRegression())])
In [ ]:
        DecisionTreePipeline = Pipeline([('myscaler', MinMaxScaler()),
                                                   PCA(n_components=3)),
                                         ('decisiontree_classifier', DecisionTreeClassifier())])
        RandomForestPipeline = Pipeline([('myscaler'
                                                      ,MinMaxScaler()),
                                               ('mypca', PCA(n_components=3)),
                                                                          , RandomForestClassifier())])
        mypipeline=[LogisticRegressionPipeline,DecisionTreePipeline,RandomForestPipeline]
In [11]:
         for mypipe in mypipeline:
            mypipe.fit(X_train,y_train)
In [12]:
        accuracy = 0.0
        classifier = 0
        pipeline = ''
In [13]:
        PipelineDict =
In [15]:
                model in enumerate(mypipeline)
                                         .format(PipelineDict[i], model.score(X_test, y_test)))
In [16]:
            i, model in enumerate(mypipeline)
            if model.score(X_test,y_test)
                accuracy = model.score(X_test,y_test)
                pipeline =model
                classifier=i
         print('Classifier with best accuracy:{}'.format(PipelineDict[classifier]))
In [ ]:
```