```
In [1]: | #making dataset
        from sklearn.datasets import make regression
        X,y = make regression(n samples = 1000, n features=3,n informative=3,
                               noise= 80, bias = 100.0, random state=0)
In [2]: X
Out[2]: array([[-1.18028561, 1.0121683, -0.28044778],
               [ 0.73359487, 2.01186426, 0.30301105],
               [-0.51390295, -0.76884916, 0.98824057],
               [-0.11433516, 0.74355352, 0.02624662],
               [1.64813493, 0.16422776, -1.47183501],
                [ 1.45403575, -0.2568697 , -0.78027987]])
In [3]: y
Out[3]: array([ 1.18004524e+02, 2.32749117e+02, 1.38032053e+02, 1.81587348e+02,
               -3.81214242e+01, 2.64439632e+02, 3.77126994e+01, 1.65920830e+01,
                2.37504061e+02, 1.52010732e+02, 2.23864681e+02, 1.47839028e+02,
                5.67501027e+01, 8.75230412e+01, 4.03052199e+02, 1.76611107e+02,
               -2.80853306e+01, -6.99915345e+01, 3.09481036e+02, -1.51677880e+02,
               -1.93549210e+02, -1.23755485e+01, 2.34688017e+02, -4.73691405e+01,
                7.44899036e+01, 1.25991668e+02, 6.63632409e+00, -4.92203061e+01,
                1.67260692e+01, 2.01684186e+00, -1.03873330e+02, 1.43954449e+02,
                8.83639698e+00, 4.24409683e+01, 2.59526627e+01, 1.56014670e+02,
               -3.00956727e+01, 2.45627105e+02, 4.49195021e+01, -6.58497750e+01,
                2.16495203e+02, 3.71836126e+02, 6.24390394e+01, 1.00007694e+02,
                6.29061000e+01, 2.65805726e+02, 6.41641721e+01, 9.40187874e+01,
                3.96472839e+02, 2.97499807e+02, -6.64971378e+01, 7.02769541e+01,
                1.98813686e+02, 2.49144686e+02, -5.48180804e+01, 3.95444490e+01,
               -1.06527145e+02, 6.75774868e+01, 1.61038759e+02, 1.38126044e+01,
                8.01273417e+01, 8.04615885e+01, 1.92940414e+02, 1.14974692e+02,
                9.92090431e+01, 7.49115464e+01, 1.43604448e+02, 1.17001346e+02,
               -4.20224451e+01, 1.72962822e+01, 3.34770037e+01, 1.93725614e+02,
                2.30781692e+02, -3.84622938e+00, -2.22330572e+01, 1.25025103e+02,
                1.74964071e+02, 7.88901160e+01, 2.27706600e+02, -7.33006257e+00,
                -4.63151762e+01, 2.74416292e+02, 2.13621221e+02, -2.56696958e+01,
                1.70252020e+02, 1.71224614e+02, -1.78957222e+02, 4.03282371e+02,
                3.43119264e+02, -2.70108351e+01, 3.04919073e+02, -6.14054473e+01,
                1.26182258e+02, -1.20027154e+02, 4.29045862e+01, -9.51146376e+01,
                6.88020180e+01, 8.44742803e+01, 4.72710764e+01, 3.47207961e+01,
               -1.71823705e+02, 1.32000761e+02, 7.80628090e+00, 1.91392548e+02,
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                3.15151701e+02, -2.17007680e+01, 3.12955559e+01, 2.41351561e+02,
```

```
9.50314308e+01, 3.61368699e+01, 1.88563426e+02, 9.23587483e+01,
                1.35061717e+02, -9.42747369e+01, 4.43891708e+02, 2.97477456e+01,
                -9.13379949e+01, -4.88519368e+01, -7.95225512e+00, 8.89740464e+00,
                 2.28177740e+02, 1.23020433e+01, -8.01297704e+01, 3.57508227e+01,
                -1.11659564e+02, 3.11293963e+02, 2.97790759e+02, 3.32583323e+02,
                2.25359132e+02, 2.38190241e+02, 2.59558593e+01, 9.22494757e+01, 1.15145207e+01, 1.00857251e+02, 3.61557864e+02, 7.92985901e+01,
                5.73258629e+01, 2.17482680e+00, 7.74534447e+01, -2.12157366e+01,
                -3.77576693e+00, 2.36705501e+02, -6.96759847e+01, 2.03877629e+02,
                1.27014779e+02, -7.64672334e+01, 3.76882854e+01, -7.77865032e+01,
                 2.60361345e+02, 8.91447400e+01, 1.03451308e+02, 7.82047655e+01])
In [4]: from sklearn.linear model import LinearRegression
        from sklearn.model_selection import train test split
        X train, X test, y train, y test = train test split(X, y,
                                                              random state = 0)
In [5]: linreg = LinearRegression().fit(X train, y train)
        print('linear model coeff (w): {}'
             .format(linreq.coef ))
```

1.02390110e+02, 7.46720604e+01, 1.33310631e+02, 2.67920314e+02, -4.65068753e+01, 3.58029694e+02, 1.20805289e+02, 1.57508090e+02, 3.59931644e+02, 1.25870092e+02, 9.49427806e+01, 1.10256157e+02, -9.36557007e+01, -2.81100082e+01, -5.28406293e+01, 1.91168221e+01, 1.04906449e+02, -6.07832107e+01, 8.13765162e+01, 2.51597312e+02, 4.86066178e+02, 2.35304348e+00, 6.53473798e+01, 1.54819282e+02, -3.08078321e+01, 1.19267527e+02, 3.70744235e+02, 2.37086167e+02, 2.29063619e+02, -1.18769884e+02, -1.53365434e+01, 1.54508211e+02, 2.67326025e+02, -1.61520575e+02, 1.11016336e+02, -3.84304729e+01,

-1.23987745e+02, 1.46821148e+01, -2.38245112e+02, -2.42702519e+01, 1.55264780e+02, 1.18849091e+02, -1.04617400e+02, -2.39559964e+02, -1.82751629e+01, 2.36931888e+02, 3.13853003e+02, 2.10427242e+02, 2.41489216e+02, 2.89311479e+02, 3.25335438e+00, 6.59895629e+00, 3.62048211e+02, -3.82805314e+01, 2.74112393e+01, 1.18423593e+02, 3.18758556e+02, 3.90894332e+02, -9.73293409e+01, 4.05002010e+01, 2.78572281e+02, 1.65832700e+02, 1.84440614e+02, 1.15516499e+02, 1.43657571e+02, 2.47240628e+02, 3.73122564e+02, 1.75280832e+02, -9.13047807e+01, 2.97474137e+02, 1.83858881e+01, 5.48067380e+01, 3.39665678e+01, 2.46375379e+02, -1.46728722e+02, 4.90215129e+01, 1.24884785e+02, 1.78585331e+02, 2.51609622e+02, 1.67931088e+02, 1.02992576e+02, -2.24736948e+02, -1.11943156e+02, 2.81067210e+02, 1.89396084e+02, 1.06524708e+00, -1.84175828e+01, 3.90665436e+01, -3.11902141e+01, -8.26640109e+01, 2.66891481e+02, 1.20351222e+02, 1.59512354e+02, 1.13031229e+02, -1.42758316e+02, 1.83010906e+02, -3.47141829e+01, 1.73303058e+02, -1.25530096e+02, -2.66205857e+01, 7.26003975e+01, -2.25788579e+02, 1.35398859e+02, 2.65102296e+02, 1.64150539e+02, 2.20054250e+02, 2.61808035e+02, 1.97023865e+02, -1.16703604e+02, 6.79205178e+01, 5.15060126e+01, 3.02571837e+02, 3.07791004e+02, 1.10901922e+02, -5.90958743e+01, -1.68543007e+02, -1.68060570e+01, 1.22415799e+02, 1.50337823e+02, 2.95420332e+02, 2.86381070e+02, -4.30658995e+02, 7.95869500e+01, 2.56216682e+02, -3.57263736e+01, 2.30240224e+02, 1.74227099e+02, 2.54605922e+02, -7.07227371e+01, 1.24573689e+02, -1.06905465e+02, 1.80084247e+02, 8.49459880e+01, 3.34955332e+02, 3.47547873e+02, 6.97823820e+01, 1.25186890e+02, -1.71492341e+02, 2.89894104e+02, 1.24832355e+02, 1.37299752e+02, 2.84070747e+02, -6.01760160e+01, 9.16404654e+01, 1.37649990e+02, 3.20763857e+01, 6.65270972e+01, 1.71736601e+02, 2.42737088e+02, 2.66674403e+02, 1.43872303e+02, 1.57866956e+02, 3.05781286e+02, -4.40280994e+02, -8.02215278e+00, 1.02571343e+02, -3.48641239e+01, -4.60118382e+01, 5.87687134e+02, 1.36403255e+02, 1.96958948e+01, 1.36571463e+02, 1.01865142e+02, -5.56558291e+01, 2.57673260e+02, 3.69642135e+02, 2.54654130e+02, -5.40946639e+01, -1.66438467e+02, 2.78733569e+02, 1.30963840e+02, 3.26826067e+02, 1.00820000e+02, 3.06336768e+02, -1.20468851e+02, 1.07893597e+02, 2.42214928e+01, 2.31686458e+02, 4.07981708e+01, -8.71477012e+01, -4.86812134e+01, 1.76848673e+02, 6.28638777e+01, 2.22247235e+02, -4.64554545e+01, 9.03599012e+01, 1.42980478e+02, 3.53048868e+02, 9.04243411e+01, 3.47273072e+01, 1.57521018e+02, -2.87465959e+01,

```
.format(linreg.score(X_test, y_test)))

linear model coeff (w): [70.46103531 94.88542757 58.48816529]

linear model intercept (b): 95.503

R-squared score (training): 0.722

R-squared score (test): 0.693
```

print('R-squared score (training): {:.3f}'

print('R-squared score (test): {:.3f}'

.format(linreg.score(X train, y train)))