```
In [50]: import pandas as pd
          from sklearn.datasets import load_digits
          digits = load_digits()
In [51]: df.head()
             pixel_0_0 pixel_0_1 pixel_0_2 pixel_0_3 pixel_0_4 pixel_0_5 pixel_0_6 pixel_0_7 pixel_1_0 pixel_1_1 ... pixel_6_6
          0
                  0.0
                            0.0
                                     5.0
                                              13.0
                                                        9.0
                                                                  1.0
                                                                           0.0
                                                                                     0.0
                                                                                              0.0
                                                                                                        0.0 ...
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                  0.0
                            0.0
                                     0.0
                                              12.0
                                                       13.0
                                                                  5.0
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                                                                                              0.0
                                                                                                        0.0 ...
                                                                                                                     0.0
          2
                  0.0
                           0.0
                                     0.0
                                              4.0
                                                       15.0
                                                                 12.0
                                                                           0.0
                                                                                     0.0
                                                                                              0.0
                                                                                                        0.0 ...
                                                                                                                    5.0
                                                                                                        8.0 ...
          3
                  0.0
                            0.0
                                     7.0
                                              15.0
                                                       13.0
                                                                  1.0
                                                                           0.0
                                                                                     0.0
                                                                                              0.0
                                                                                                                     9.0
          4
                  0.0
                            0.0
                                     0.0
                                               1.0
                                                                  0.0
                                                                           0.0
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                                                                                              0.0
                                                                                                        0.0 ...
                                                                                                                     0.0
                                                       11.0
         5 rows × 64 columns
In [52]: from sklearn.model_selection import train_test_split
          x_train, x_test, y_train, y_test = train_test_split(digits.data,digits.target,train_size=0.8)
In [53]: len(x_train)
Out[53]: 1437
In [54]: len(x_test)
Out[54]: 360
In [55]: from sklearn.svm import SVC
          model = SVC()
In [56]: model.fit(x_train, y_train)
Out[56]:
            SVC
          SVC()
In [57]: model.score(x_test, y_test)
Out[57]: 0.9861111111111112
In [58]: model_C = SVC(C=1)
          model_C.fit(x_train, y_train)
          model_C.score(x_test, y_test)
Out[58]: 0.986111111111112
In [59]: model_C = SVC(C=10)
          model_C.fit(x_train, y_train)
          model_C.score(x_test, y_test)
```

Out[59]: 0.9916666666666667

In []: