```
import numpy as np
import pandas as pd
df=pd.read csv("D:/luminar/Iris.csv")
df
          SepalLengthCm SepalWidthCm
                                         PetalLengthCm PetalWidthCm
      Id
0
       1
                     5.1
                                    3.5
                                                   1.4
                                                                  0.2 \
1
       2
                     4.9
                                    3.0
                                                   1.4
                                                                  0.2
2
       3
                     4.7
                                    3.2
                                                   1.3
                                                                  0.2
3
       4
                                                                  0.2
                     4.6
                                    3.1
                                                   1.5
4
       5
                     5.0
                                                                  0.2
                                    3.6
                                                   1.4
                     . . .
                                    . . .
                                                    . . .
                                                                  . . .
145
     146
                                    3.0
                                                   5.2
                                                                  2.3
                     6.7
     147
                     6.3
                                    2.5
                                                   5.0
                                                                  1.9
146
147
     148
                     6.5
                                    3.0
                                                   5.2
                                                                  2.0
148
     149
                     6.2
                                    3.4
                                                   5.4
                                                                  2.3
149 150
                     5.9
                                    3.0
                                                   5.1
                                                                  1.8
            Species
0
        Iris-setosa
1
        Iris-setosa
2
        Iris-setosa
3
        Iris-setosa
4
        Iris-setosa
145 Iris-virginica
146 Iris-virginica
147 Iris-virginica
148 Iris-virginica
149 Iris-virginica
[150 rows x 6 columns]
df.isna().sum()
Id
                 0
SepalLengthCm
                 0
                 0
SepalWidthCm
PetalLengthCm
                 0
PetalWidthCm
                  0
Species
                 0
dtype: int64
df.drop(['Id'],axis=1,inplace=True)
df
     SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
Species
0
               5.1
                              3.5
                                              1.4
                                                             0.2
Iris-setosa
                                                             0.2
               4.9
                              3.0
                                              1.4
```

```
Iris-setosa
                  4.7
                                   3.2
                                                      1.3
                                                                       0.2
Iris-setosa
                  4.6
                                   3.1
                                                                       0.2
                                                      1.5
Iris-setosa
                                                      1.4
                                                                       0.2
                  5.0
                                   3.6
Iris-setosa
145
                  6.7
                                   3.0
                                                      5.2
                                                                       2.3 Iris-
virginica
146
                  6.3
                                   2.5
                                                      5.0
                                                                       1.9 Iris-
virginica
                  6.5
                                   3.0
                                                      5.2
                                                                       2.0 Iris-
147
virginica
                  6.2
                                   3.4
                                                      5.4
                                                                       2.3 Iris-
148
virginica
                                   3.0
                                                      5.1
                  5.9
                                                                       1.8 Iris-
149
virginica
[150 rows x 5 columns]
x=df.iloc[:,:-1].values
y=df.iloc[:,-1].values
from sklearn.model selection import train test split
x train,x test,y train,y test=train test split(x,y,test size=0.30,rand
om_state=0)
from sklearn.preprocessing import StandardScaler
S=StandardScaler()
S.fit(x train)
x train=S.transform(x train)
x test=S.transform(x test)
from sklearn.svm import SVC
s=SVC()
s.fit(x train,y train)
y pred=s.predict(x test)
y_pred
array(['Iris-virginica', 'Iris-versicolor', 'Iris-setosa',
         'Iris-virginica', 'Iris-setosa', 'Iris-virginica', 'Iris-
setosa'
        'Iris-versicolor', 'Iris-versicolor', 'Iris-versicolor', 'Iris-virginica', 'Iris-versicolor', 'Iris-versicolor', 'Iris-versicolor', 'Iris-versicolor', 'Iris-setosa', 'Iris-versicolor', 'Iris-setosa', 'Iris-versicolor', 'Iris-setosa', 'Iris-
setosa'
         'Iris-virginica', 'Iris-versicolor', 'Iris-setosa', 'Iris-
```