**SIMPLE PROGRAM IN SUPPORT VECTOR MACHINE**

**AIM :**

To Create a simple

program in Support Vector Machine

in Python.

**ALGOR**

**ITHM:**

1

. Import the necessary libraries.

. Load and preprocess the data.

2

3

. Build the

SVM

model.

4

. Compile the model.

5

. Train the model.

6

. Evaluate the model.

**PROGRAM:**

from sklearn import datasets

from sklearn.model\_selection import train\_test\_split

from sklearn.svm import SVC

from sklearn.metrics import accuracy\_score

iris =

datasets.load\_iris()

X = iris.data

y = iris.target

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size=0.3, random\_state=42)

clf = SVC(kernel='linear', C=1)

clf.fit(X\_train, y\_train)

EX. NO: 12

DATE : 24/05/2024

220801140

y\_pred =

clf.predict(X\_test)

accuracy = accuracy\_score(y\_test, y\_pred)

print(f'Accuracy: {accuracy:.2f}')

**OUTPUT:**

A

ccuracy : 1.00

**RES**

**ULT**

**:**

This program i

s executed successfully.

220801140