Teacher's Signature \_\_

| Jovita, 4 | MATIT | 15011  |
|-----------|-------|--------|
| JOVITA, 4 | 10111 | COUTY. |

algorithm to dessify the isis

he used for this problem.

import numby as no

iris -dataset - load\_isis()

clossifier. fit (x-tram, y-tram)

y-pred - classifier . predict (x-test)

from sklearn dataset import load isist

iris\_dataset [" target"], random\_state=0)

Expt. No. 6

Teacher's Signature \_\_

## Jouita, 4MT17(5044

## Output

IRIS FEATURES \ TARGET NAMES :

['setosa': 'versicolor' 'virginica']

[0]: [setusa]

[1] : [writold]

[2] : [wirginica]

KNeighbors Classifier (algorithm = "auto", leaf\_size = 30, metric = 'cuclidean', metric-params = None, n-jobs = None, n-neighbors = 8, p=3, weights = 'uniform')

Confusion matrix is as follows:

[[13 0 0]

[0 15 1]

[0 0 9]]

## Accuracy metrices

|   | prediction | recall | fl-score | support |
|---|------------|--------|----------|---------|
| 0 | 1.00       | 1.00   | 1.00     | 13      |
| 1 | 1.00       | 0.94   | 0.97     | 6       |
| 2 | 0.90       | 1.00   | 0.95     | 9       |

| acuracy      |      |      | _    |    |
|--------------|------|------|------|----|
| Ü            |      |      | 0.97 | 38 |
| macio ava    | 0.97 | 0.98 | 0.97 | 38 |
| weighted aug | 0.98 | 0.97 | 0.97 | 38 |

## Jouita, 4MT1765044

correct prediction: 0.9736842105263158

weng prediction: 0.02631578947368418