Mogram 9 Write a program to implement k-Neoicst Neighbour algorithm to classify the in's data set. Print both wriect and wrong predictions. Javof Python ML library dosset can be used for this problem. from skleam datasets import load in's from sklearn neighbors import KNeighbors Clossifier from sklearn metrics import dassification-report import numpy as no from sklearn model relection import train-test-split from sklears metrics import confusion matrix from skie an metriss import accuracy score iris\_ dataset = load - iris() print ('In IRIS FEATURES | TARGET NAMES : In', iris\_ datoset. target\_names) for i in range ( in ( inis - data set . target name): print ("In [10]] :[11]", format (1, ins\_ dateset. print (" In IRIS DATA: In", in's dataset ["clata") 2-train, 2-test, y-train, y-test = train test split (iris data see [ dara'], ins\_ datasu [ targer'], random-State =0) clossific = KNeighbors Classific (no neighbors = 8, p= 3, metric = 'cucled can') classific = fif ( x train, y-train) Teacher's Signature \_\_\_\_

	Date		
Expt. No	Page No <b>39</b>		
y-pred = classifier. precut (z. HSt)			
m = confusion matrix (y test, y-p.	red)		
print () Confusion matrix is as	followsin' (m)		
print ('Auway metrics')	, , ,		
print (dessification-report (y. test,	( aced)		
print ("wrechen needlike" " accu	950.00		
print ("wrection prediction", acus	raig storet y rese, y-preas		
print word prewition, 11-acc	Wray swre (y-kst ,y-pred))		
	Teacher's Signature		

```
IRIS FEATURES | TARGET NAMES :
```

['setosa' |versicolor' 'virginica']

[O]: [setosa]

[i]: [versicolor]

[0]: [virginica]

IPIS DATA:

[ [5.1 8.5 14 0.2]

[4.9 3.0 1.4 0.2]

t4.7 3.2 1.3 v.a)

k Neighbors Classifier (algorithm = auto), leaf\_size=30, metric='euwated',
metric-params = None, n-jobs=None, n-neighbors=8, p=3,
weight = 'uniform')

Confusion matrix is as follows

[[13 0 0]

[0 15 1]

[0 0 9]]

Accuracy metrics

	prediction,	recau	fi-score	support
0	1-00	1.00	1.00	/3
1	1.00	0.94	0.97	16
<b>ə</b>	0.90	1.00	0.95	9

accu movo weighted	avg	0.97 0.98	o. 98 o. 9 <del>7</del>	0.97 0.97 0.97	38 38
wrect	prediction prediction		0.9736842105263158 0.02831578497368148		