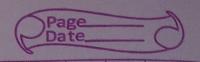
Assignment - 2



KNN (K-neenest neighbour)

(1) Following data are given:

7 101	perper	Glyer	chillas	Inleed
A	True	Trye	True	Fulse
B	Trye	fulse	fulle	Truc
C	fulse	True	True	fuse
D	·fulse	True	fedre	True
E	True	fulse	false	True

If new data is given as

Q: pepper: fulse

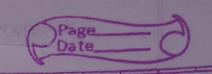
ginger: true

chilly: twe

classify the Q If 1c= 1 to 5

Solmi

-	AND RESIDENCE OF THE PARTY OF T			
+	By using he	unming dist	unce (both categories
	value of some	dist will	he 20	10 else one)
	pepper	alnger		
	Δ		1	1+0+0 = 1
	B	6	0	1+4+1=3
	0	1	1	010+000
	0	21	0	0101121
	E	0	O	1414153



Majina

If |c=1, Q will be classified as fulse

if |c=2, Q will be classified as fulse (2 fulse)

If |c=2, Q will be classified as fulse (2 fulse)

If |c=4, Q will be classified as fulse (2 fulse 1 mus)

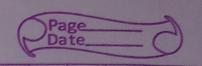
If |c=5, Q will be fuse (2 fulse, 3 fuse)

(2) For the following data capply know Sycales sepal width Sorel leigh (etusa 3.7 5.3 3.8 Schosa 5-1 selvia 3.0 72 MAgine 3.5 8.4 Selosa 3.3 8-1 schosa 3.9 8.4

2.8

7.4

verschoden 2.4 6.1 Vinginia 29 2.5 Vinginda 27 60 verscicola 2-8 5-8 2-3 vericicolon 63 28 Versciala 0.1 6.3 7.5 versida 6-5 2.4 Verscoolen



Q: Sepal length = 3.1 Sepal width = 3.1 Spaires = 9

De vill use caeludeum distunce

ŀ				
-	Sexal Longth	Soyal Width	Speeles	distance
	5-8	3.7	Selosa	V0.46
-	5-1	3.8	setesa	10.53
-	4.2	3.0	VIAgihlece	VII
-	5.4	3.4	Selosa	100
-	8.1	3.3	selusa	10.5
	5.4	39	Setusa	11.04
	7.4	28	Vinginier	V3.04
	.6-1	28	Whylnical	13.04
	7.3	۲-3	Virginda	VF-3
A SUBSTRACTION OF THE PARTY OF	6.0	2.3	Versicola	NO-38
KERNITHERENINA	5.8	2.8	Vixelinece	10.13
	6-3	2.3	version	JO. 394
CASISCOMMENDATION OF	6-1	2.5	"	,
MILES ADDRESS CITY	6.3	2.8	17	1039
THE PERSONAL PROPERTY.	5-5		1:	11.8
SECURITY STREET		2h		10.51

of 1c=5, Into 5 distriction of one o.32, o.224, o.361, 0.61 and a.67, in which close are three setosa, one virginica and one vergeicalor

Ansewer: species: setosa