Teacher's Signature: .....

E	xpt. No2 Page No		
8	Apply Em algorithms to chuster a set ut data stored		
	I can hile we the same address for custor		
	Mg. using to means algorithm compare the		
	mg. using k-means algorithms compare the vernet of these too algorithm and coment		
	the quality of cluster ing. you can dad		
	Javaf python me hibrary classes.		
	inport matprottibe pyport as phot.		
	brom sklean import dartarets.		
	from Spleaser chaper port kneams.		
	Import Skelean metrics as sm		
	l'urport. pandes as pd.		
	Import numpy as up.		
	1/m/z = datarets: bad invs()		
	r= pd. pata mane (interacta)		
	x. columns = [ ! sepal kingtin', 'sepal winty', 'petal-		
	length ' petal widty'.		
	y = pd-pctctrame (inis. tanget)		
	y. colamo = ['Tanget']		
	4. 40100		
	model = (chears ( n = dugkes = 3)		
	moael, fit (x)		
	model. labels.		
	p1+ bigune (frame = (14,7))		
	Colormap = np. array [['red'. 'The ', Iblack D		
	plt. Subplot (1,01).		
	pit. scatter X. petal length, X. petal-what, c=		
	Colormap [y. tangeds], 5= (0)		
	pt. title ('peal classification')		
	MI CONTINUEDATION		

	Date
Expt. No	Page No의
P14. Subplot (ward)	
11 Scotler ( X. De Val Jane	An . X potal wordth, ( = Colomas
[model. labels -], se	= 46)
pit title ('Emeans class	
p1 1 . figSize = (14,7)	
bred u = up. choose ( mo	al. labels-, [o,1,a]. astype.
(no. int 64)	
print (prod y)	
prt. Support (1, 21).	
	ength: X. petal-width, C=
Colormap [y, Tange	As7, s=40)
prt. Hotle ('Real class)	
pi + - subplo + (1212)	
pit. scatter (x. perfal-	ength. x. petal wlash, (=
colormap[predy], 5=	
p1+. titee ( 'k means c'	
printer The accuracy Si	ore of 10 means; 1, sm.
aceuacing store (7, m	
printe : The confusion	matrix of k means!
	rix (y. model _ labels)
bron sklessy impo	phenorgand for
Scaler = preprocessing	
Scaler. Liter	
	·
X19 = Sealal. transfo	
x3 = gd. belefrance	(xea, colum = x. columne)
from 8 klesm. mix	those Import ganestan
myture	
gmon= Ganeston	mixter (u-components=3
	Teacher's Signature:

	Date
Expt. No	Page No22
gmm. filse red	
y-due kr-gmm = gmm . prod	MOTO CKS)
pit-supprot (2,213)	and the second state of the second
pt. Scatter (x. petal length	- X. petal-warm, (= color.
mar [ y- cluster gm m]	, 5 = 40).
and the Comme double and	
prite the accuracy con	ne of Emi', 8m. accusacy
prit i The confusion matri	~ of Em: , sm . cont
usion matrix Cy, y clue to	er. gin m)
	<del>Constant of the Property of t</del>
the state of the s	
	a first of the first of the first
and the second second second	the first of the first
A plant of the part of the par	<u> </u>
and the second of the second of the second	to the second se
· · · · · · · · · · · · · · · · · · ·	A. ( )
	the same training
the same of the sa	
and the second of the second	· A
	- A 1
*	
	De la companya del companya de la companya del companya de la comp
,	Teacher's Signature:

Page No....

- trytuo

The accusacy some of to-means: [[0500]

[4802]

[14036]