Fayor Raide (CT-104)

m A	3	10	A		
1	100	N	9,00		
and the same of th	1	Name of the Party			

Q Consider the following 6 data points: A[1,2], B[2,2], C[7,6], D[8,7], E[2,3],

Epsilon in (3) & Minimum number of point, required to form a clusterin 2
Apply DBSCAN algo to categorize the above data points as core, border or noise data points. Use Euclidean distance to find the

distance b/w points

	Core	Core	Core	Core	Core	Boundary (Voise
	A	8	C	D	E	F. Commission of the State of t	
A	0	(1)	7.211	8.602	(1.414)	24.738	
B	(1)	(0)	6.403	018.F	1	23.769	
C	7.211	6.403	(0)	1.414)	5.830	18 -110	
D	8.602	7.810	(1.414)	(0)	7.211	17.029	
£	1.414)	(1)	5.830	7.211	(0)	23.537	
F	24.738	23.769	18.110	17.029	17.029	(0)	

C> First fill lower part than muses the values in upper part

$$\begin{array}{lll}
(A,B) &= \int (1-2)^2 + (2-2)^2 &= 1 \\
cl(A,C) &= \int (1-7)^2 + (2-6)^2 &= 7.211 \\
cl(A,D) &= \int (1-8)^2 + (2-7)^2 &= 8.602 \\
cl(A,E) &= \int (1-2)^2 + (2-3)^2 &= 1.414 \\
cl(A,F) &= \int (1-25)^2 + (2-8)^2 &= 24.738
\end{array}$$

FOR B:

$$d(B,C) = \sqrt{(2-7)^2 + (2-6)^2} = 6.403$$

$$d(B,D) = \sqrt{(2-8)^2 + (2-7)^2} = 7.810$$

$$d(B,E) = \sqrt{(2-2)^2 + (2-3)^2} = 1$$

$$d(B,F) = \sqrt{(2-25)^2 + (2-8)^2} = 23.769$$

FOR C:

$$d(C,D) = \sqrt{(7-8)^2 + (6-7)^2} = 1.414$$

$$d(C,E) = \sqrt{(7-2)^2 + (6-3)^2} = 5.830$$

$$d(C,F) = \sqrt{(7-25)^2 + (6-8)^2} = 18.110$$

For D:

$$d(D,E) = \sqrt{(8-2)^2 + (7-3)^2} = 7.211$$

$$d(D,F) = \sqrt{(8-25)^2 + (7-8)^2} = 17.029$$

FOR E:

$$d(E, F) = \int (2-25)^2 + (8-8)^2 = 23.537$$