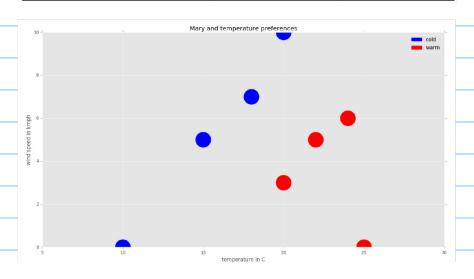
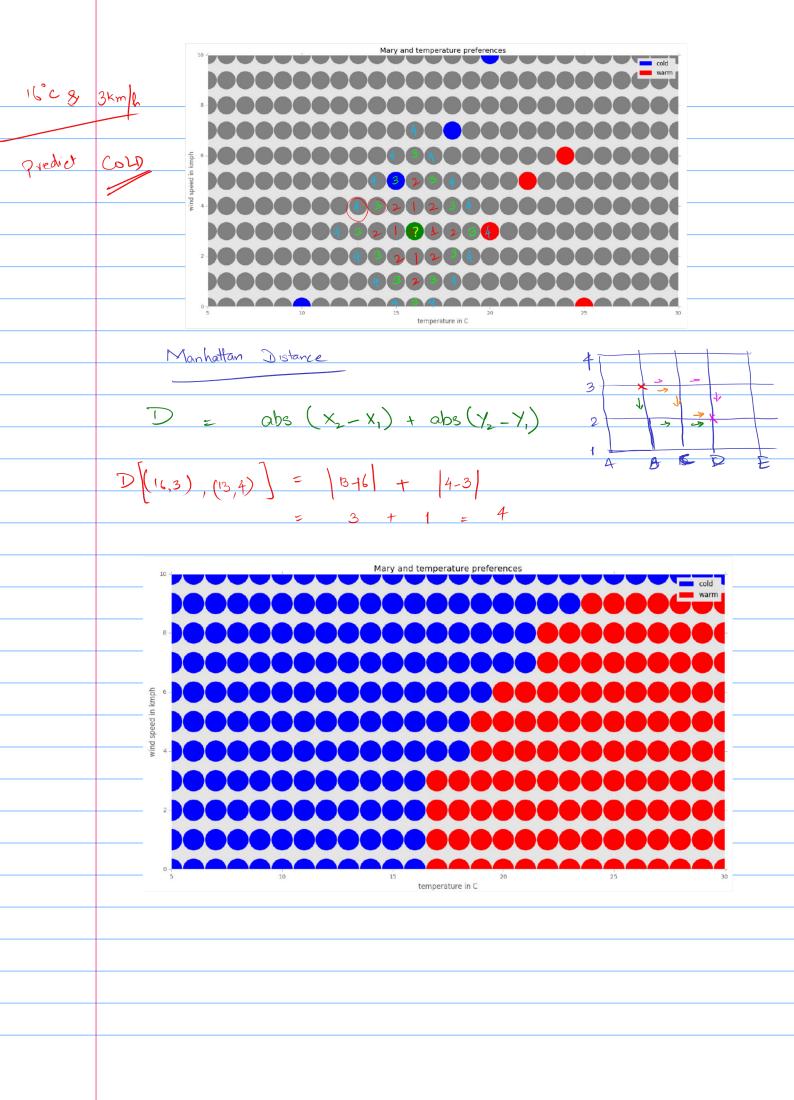


10°C Cold 25° Warm

Temperature in degrees Celsius	Wind speed in km/h	Mary's perception
10	0	Cold
25	0	Warm
15	5	Cold
- 20	3	Warm
18	7	Cold
20	10	Cold
22	5	Warm
24	6	Warm





	Assign ment 2
	1. Predict for 10%, 20%, 30%, 40% & 60%
	2. Distance Measure Eschidean
	Manhattan
	3. Apply KNN with K = 1, 3, 5, 7, 9
	1. Report Confusion matoix -> accuracy
	Torread Index
	L W
L	
W	Due Date: 5th Nov 2019

Age	Annual income in USD	House ownership status		
23	50,000	Non-owner		
37	34,000	Non-owner	K	
48	40,000	Owner	Divide & multi	Salgry by 1000
52	30,000	Non-owner	& multi	ply age by 2
28	95,000	Owner		
25	78,000	Non-owner	Λ	
35	130,000	Owner	Age	Sal
32	105,000	Owner	min 40	30
20	100,000	Non-owner		15
40	60,000	Owner	max 104	ايخوا
50	80,000	Peter		
		House (Ownership	
	140000 -	110450	,,,,,,,	• owner
	140000 -		X ₁	Peter - non-owner
	120000 -			
			⊗ 2	
	100000 -	× ×		
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	Incom			
	60000 -		%	-
	40000 -			
	201g		×a	
	20000 -			
2	oK	13		
	0 0 10		30 40 Age	50 60
		,	caj co	
	7)	10.15	1.11	1.1.
	man =	peulage - c	andidaleage +	petersal - condidatesalay
× \	distance (F	peter x:		
/>	5	, 11/	no t	
l			K=1	
2	3 ~		K = 3	
3	8			
	_			
4	4		2, 5, 8	
5	• \		YNN	J
(5 6		,	
	8 2 "			
1	0 \ 8			
	\			

Scaled Age = Age = min (Age)

more (Age) - min (Age)

Scaled Salary = Sid; - min (Sal)

mare (Sal) - min (Sal)

raled age Annual income in USD | Scaled annual | House ownership st

	Age	Scaled age	Annual income in USD	Scaled annual income	House ownership status
	23	0.09375	50,000	0.2	Non-owner
	37	0.53125	34,000	0.04	Non-owner
	48	0.875	40,000	0.1	Owner
	52	1	30,000	0	Non-owner
	28	0.25	95,000	0.65	Owner
	25	0.15625	78,000	0.48	Non-owner
	35	0.46875	130,000	1	Owner
	32	0.375	105,000	0.75	Owner
	20	0	100,000	0.7	Non-owner
_	40	0.625	60,000	0.3	Owner
	50	0.9375	80,000	0.5	?

Scale Age 2 - Age i - Aug (Age)

max (Age) - min (Age) to

max (Age) - Aug (Age) 5

Aug (Age)

Aug (Age): 39 59-39 1 52-39

 $\frac{52-39}{52-20} = \frac{13}{32} = 0.4 \qquad 20-39 = -19 = \frac{19}{52-39} = \frac{19}{13}$

 $\frac{-19}{52-20} = \frac{-19}{32} = \frac{-05}{32}$