Name: Noma Seat no: B20		1
Assign	ment: 26	
Actual Predictions	Model A Predictions	Model B Predictions
) Q	Predictions	Q
a) Q u) R	R	Q
5) R 6) R	R	R R
Question 3	L: Calculate	- Accuracy for rodels:
		accuracy:
7,000	Total	Number of predictions
=) Accura	y= 5 =	0.8333 or 83.33
Accurac	y = 5 =	0.8333 0183.33

Duestion 2: Calculate Recision, Recall and F. Sore for Class Q: Precision (Model A, Class Q) = 2 = 1 Precision (Model B, Class Q)= 3 = 3 = 0.75 or 75%. Recall (Model A, Q) = 2 = 2 = 0.6667 66.67% Recall (Model B, Q) = 3 = 3 = 1 on 1007. 3+0 3 J.-Score (Model A, Q) = 2 x 1x0.6667=0.80 1+0.6667 01 801. J,-Score (Model B, Q) = 2 x 0.75 x 1.0 = 0.8574 0.75+1.0 85.747.

Question 3: Which model is better in your opinion and why? Model A has a higher precision for Class Q (1001.) but a lower recall (66.671.) Model B has a lower precision for Cluss Q (75%) but a higher recall) Fi Score which balances precision and vecall is generally Considered a good metric for evaluating model performance in Cases where there is an imbalance between precision and occall: .) F. - Score for Model A: 80%. .) F. - Score for Model B: 85.71%. Model B has a better F, Score Compared to Model A which Suggests that Model B is better orierall in balancing precision and recall for Class Q.



D + 11	1 4	0 0		
Question 4	: Create a	Confus	on mali	in
	: Create a for M	odel B:	410.44	
	Predicted	(Q) Rue	dicted (5)
Actual(Q)	3CTP)	O (FN))
Actual (R)	1(FP)	1	2 (TN)	
Question 5:	What do	you lears	from the	is
	Confusio	n Matien	?	
Model B Co	rectly iden	tified all	riston	res
Model B Co of Class Q to perfect	(no fal	e negate	ies) lead	ling
to perfect	recall.	-		U
It miscl	assified 1	ename	ble from	L
Class R a	ussefied 1 as	se positive), rede	icing
its pucusion				U

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