Duta____

DA Assignment - 1

				2019120008	
01)					
	Attribute	Online	Late	VeryLate	Cancelled.
	Day:			0	
	Weekday	3/14=0.	0.5	1	0
	Neekday	0.14	0.5	o	1
	Sunday	0.07	0	O	•
	notiday	0.14	٥	6	0
	Season:				
	Winder	0.16	l	0.64	0
	Autumn	0.14	0	0.33	0
	Summer	0.43	0	٥	6
	Spring	0.29	6	0	0
	Fog!				
	Normal	0.36	0.5	0.63	
	ruigh	0.29	0.5	0.33)
	None	o · 36	0	0	O
	0 4				
	Rain	•	5 6	_	
	None	0.36	0.8	0.33	0
	Seight	0.07	O	6	O
	reavy	0.67	0.5	0.64	1
	Brien	6.70	0. (6.15	0'05
	Probability				

case 1

class: on time

= 0.7x 0.64x 0.14 x 0.29x 0.36 = 6.5717 x 10-3

Case 2

Class: Late

= 0.1 × 0.5 × 1× 0.5 × 0.5

= 0.0125

Case 3

Class: very lete

= 0.15 x 1 x 0.67 x 0.93 x 0.33

= 0.0103

Case 4

class: cancelled

= 0.05 x 0.0 x 0.0 x 1 x 0

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As the case 2 value is high,

!. The instance will be categorized under llass late

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$$x^2 = \begin{cases} \begin{cases} x^2 \\ & \end{cases} \end{cases} = \begin{cases} (a_{ij} - e_{ij}) \\ & \end{cases}$$

$$x^{2} = \left[250 - 90\right]^{2} + \left[50 - 210\right]^{2} + \left[200 - 260\right]^{2}$$

$$= 90$$

$$= 1000 - 840$$

$$= 840$$

:.
$$\chi^2$$
 value needed = 2.706
but 50793 772-706

.. Null hypothesis of independence is rejected with a confidence level of 0.1.