	Assessment #3.
	MCQ.
1.	a) Python is a high level programming language. b) Python Support multiple programming
	paradigms.
ζ,	b) [3,4,5]
3.	c) Converting det to DF.
1.	a) Specifies diamensions along which an operation is performed.
	a) Buit on top of Numpy. b) Provides debra Structure as Series & DF.
6.	d) All of these.
7.	c) PH. Savetig ('output. Prg').
8.	a) al. dropna ()
g,	b) data type of array.

10.	a) Slicing creates view of the original array.
N.	d) b)
12.	C) Michael.
13.	a) Generate transform Int.
14.	g) a)
15.	a)
16.	c)
17.	a)
. 8)	a)
19.	C)
20.	6)
21.	b b)

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	Date	3/
22.	62	
23.	b) —	
OL		
<u> </u>	(D)	
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25.	d)	
00		-
26.	α/	-
27.	a)	
		-
38.	c)	
29.	7	
X	4)	
30.	b)	
-	d)	
	Scenario based quistions-	
1.	1) If the missing value present in the data Set is less then we will Simple delate the rows	
	Set is less then we will simple	
	delate the now	
1	11) 11 CA in mosent then	
-	11) If Categorical data is present then use will add up the missing values with, the mode of the Column.  Cmode: most prequency data).	
	with the mode of the Column.	
	(modé:- most prequency data).	
		-

- 2. For churn prediction we can use linear Regression and Logistic Regression both for the evaluation of the data we can use Confusion mutrix, by examining the no. of observations that are correctly a Incorrectly Classified.
- 3. KNN (KNearst Number) will help in performing the Customer Segmentation.

  With this we can Identify that what are the most sold product so we can create enough stock of it, remove the up unpurchased stock and replace the old stock with the most trending ones.
- 4. We will replace the Categorical variables with the heamerical value like [0, 1, 2] by using 'map' function in a Sequence. I when the each variable will become Int. Hen we will use it in modelling procuse.

## Concept Based. Questions -

1. Multicollinearity occurs when two or more Independent variables have Convelation with one another, in a model, which makes it difficult to determine the Individual effect of each Independent variable on the dependent one.

It affects by oreducing the precision of the estimated coefficients, which weakers the Statistical power of your regression model.

To handle multicollinearity first method is to plot the coops conrelation matrix of all Independent variables

2. 1) find point which are for away from the hyperplane.

Presence of outlier coun change the magnitude of tregression Coefficients A even the direction of Coefficients.

for deteting outliers we can use graphical (such as scatter plot) and analytical method.

We can trendling handle outliers by simply transving

3. Overfitting is a problem in which our model every single data present in the dataset on we it fits too closely to the training data, and because of this model cannot generalize.

Lasso- It is a regulatrization tech. Used in the Jeature Selection using a Sinkage method.

It act by determing the Coefficient in the linear model and Strunk towards the Central point.

Ridge fegression - Ridge Regression put Similar constraint on the Coefficient by Introducing a penaly factor.

4. It Could enhanced by applying Conrect regression model that help is predicting the sa correct value.

Polynomial regression is a form of regression analysis in which the relationship b/w the Independent variables to dependent variables are modeled. in the nth degree polynomial.

We can choose the degree based on the relationship b/w the target & predictor.