

Informatics Practices

Class – XII

Case Based Question

1. Consider the following DataFrame df and answer the question.

RollNo.	Name	UT1	UT2	UT3	UT4
1	Paras Sharma	24	24	20	22
2	Mohan Kumar	18	17	19	22
3	Virat Kohli	21	22	18	24
4	Sugandha	22	20	24	20

Q1. Write down the command that will give the following output.

```
RollNo      4
Name      Virat Kohli
UT1        24
UT2        22
UT3        24
UT4        24
dtype: object
```

Q2. The teacher needs to know the marks scored by the student with roll number 4 . Help her to identify and write a correct set of statement.

Q3. Write statement which will give the exact number of values in each column of the dataframe?

Q4. Write a command to display the column of the DataFrame?

Q5. Ms. Sharma the class teacher wants to add a new column Grade with the values 'A', 'B','A','A' to the DataFrame. Help her to write the command.

Q6. Write the statement to list the first three entries of the DataFrame 'df'.

Q7. Write a Command to extract the complete row '2'

Q8. Write a command to add new column Total and calculate the sum of all four unit test.

Q9. Which command will be used to drop a row from dataframe 'df' labeled as '4'

Q10. Write a statement to check the no of dimension and shapes of the Data Frame df.

Q11. Write a statement to return the number of elements underlying the data.

Q12. Write a statement to check how many missing values are able in the dataset?