INDIAN SCHOOL AL WADI AL KABIR
Worksheet, 2022-23

Class: XII	SUB: INFORMATICS PRACTICES	Date of Completion: 22/05/2022
Worksheet No:3	TOPIC : Python Data Structure – Data Frame	Note: To be written in the Theory book

SECTION A

1. Create the following data frame **BakeryDF**
   a) Using Dictionary of Series
   b) Using Dictionary of Lists.

	ICode	IName	Rate
A	B001	Tea Cake	275
B	B002	Biscuits	75
C	B003	Chocolate Cake	350
D	B004	Bread	40
E	B005	Bun	30

2. _____ statement is used to check whether BakeryDF is empty of not.
3. _____ statement is used to fetch the row index names from BakeryDF.
4. _____ statement is used to fetch the size of BakeryDF.
5. _____ statement is used to fetch the dimension of the BakeryDF.
6. Create the following data frame **IntExamDF**
   a) Using Dictionary of Series
   b) Using Dictionary of Lists.

	Name	Eng	Maths	IP
0	Anisha	66	85	95
1	Bharat	68	82	82
2	Chandru	75	84	63
3	Dharmik	74	80	84
4	Esther	70	75	90

| 5 | Meera | 76 | 80 | 84 |

7. _____ statement is used to fetch the column names from IntExamDF.

8. _____ statement is used to fetch the data type values of the items in IntExamDF.

9. _____ statement gives the size of IntExamDF. i.e., No. rows and columns.

10. _____ statement helps to transpose IntExamDF. i.e., rows becomes columns and columns becomes rows.

SECTION B

1. Consider the following series **CustomerDF.**

	CustomerName	City	BillAmt
C1	Kamlesh	Pune	7500
C2	Vinitha	Meerat	3400
C3	Jeeva	Kanpur	4000
C4	Shreya	Vizag	2800
C5	Jimson	Shimla	5500

2. Write a statement to display the first 3 rows from CustomerDF.

3. Write a statement to display the last 4 rows from CustomerDF.

4. Write a statement to display the last 5 rows from CustomerDF.

5. Write a statement to display the last 2 rows from CustomerDF.

6. Write the difference between loc and iloc method in Data frame.

7. Write a statement to display all the values under City column.

8. Write a statement to display the values CustomerName from row index C2 to C4.

9. Write a statement to display the values CustomerName of rows C1 and C5.

10. Write a statement to display all the row values of Customer Name and BillAmt columns.

11. Write a statement to display all the row values of CustomerName to City columns.

12. Write a statement to display the values of row indexes C1 and C3 and column names Customer Name and BillAmt.

All the Best