**Problem Set for BIA Batch 2**

1. Given are two objects, a list object namely lst1 and a series object namely ser1, both are having similar values, 2,4,6,8. Find out the output produced by following statements:
2. print(lst1\*2)
3. print(ser1\*2)
4. Given the following Series1

A 100

B 200

C 300

D 400

E 500

Write the command to create above Series and then double the value in series and store in another series named Series2.

1. Consider a given Series , Series1:

200 700

201 700

202 700

203 700

204 700

Write a program in Python Pandas to create the series and display it.

1. Consider a given series, M1:

|  |  |
| --- | --- |
|  | **Marks** |
| T1 | 49 |
| T2 | 55 |
| T3 | 78 |
| T4 | 33 |

Write a program in Python Pandas to create the Series.

1. Consider the following Series object,

|  |  |
| --- | --- |
| IP | 95 |
| PHYSICS | 89 |
| CHEMISTRY | 92 |
| MATH | 95 |

i. Write the Python syntax which will display only IP.

ii. Write the Python syntax to increase marks of all subjects by 10.

1. Consider a given series : SQTR

QTR1 50000

QTR2 65890

QTR3 56780

QTR4 89000

QTR5 77900

Write a program in Python Pandas to create and display the series.

1. What will be the output of the following program?

import pandas as pd

fst=[9,10,11]

scd=pd.Series(fst)

ob1=pd.Series(data=fst\*2)

ob2=pd.Series(data=scd\*2)

print(“ob1”)

print(ob1)

print(“ob2”)

print(ob2)

1. Make a Series. Write a program to calculate the cubes of the Series values.
2. Make a Series. Write a program to store the squares of the Series values in another series object. Display the second series value, which values are more than 15.
3. Consider you have a following series:

a 0

b 1

c 2

d 3

e 4

..

..

z 25

dtype: object

Write commands for the following:

1. Set all the values of vowels to 10 and display the Series.
2. Divide all values of vowels by 2 and display the Series.
3. Create another series vowel1 having 5 elements with index labels ‘a’,’e’,’i’,’o’,’u’ having values [2,5,6,3,8] respectively.
4. Add vowels and vowels1 and assign the result to vowel3.
5. Subtract, Multiply, and divide vowels by vowels1.
6. Alter the labels of vowels1 to [‘A’,’E’,’I’,’O’,’U’].