SARALA BIRLA PUBLIC SCHOOL

Birla Knowledge City, Mahilong, Ranchi

CLASS-XII (2020-21)

SARALA BIRLA PUBLIC SCHOOL
(SARALA BIRLA GROUP OF SCHOOLS)

Sub: Informatics Practices Assignment-04

Pandas.Series

Q1. Write a statement to assign the series index as a,b,c,d,e.
S = pd.Series([5,10,15,20,25])

Q2. Given are two objects, a list object namely lst1 and a Series object namely ser1, both are having similar values,
i.e. 2,4,6,8. Find out the output produced by following statements:
(i) print (lst1*2)
(ii) print(ser1*2)

Q3. The series of areas (km^2) is given below, find out the areas that are more than 50000 km^2.

Ser1 = pd.Series([34567,890,450,67892,34677,78902,25617,678291,637632,25723,2367,11789,345,256517])

Q4. Write the output:

```
import numpy as np
import pandas as pd
data = [1,22,33,4,5,66,77,8,99,90,23,45,67,8,99,10,11,14,20,24]
s = pd.Series(data)

print("First Element",s[19])
print("First 3 Elements:\n",s[:5])
print("Using Index\n",s['a'])
print("Last 3 Elements\n",s[-6:])
print("Elements by its Position\n",s.iloc[2:14])
print(s.head())
print(s.head(4))
print(s.tail())
print(s.tail(5))
s = np.arange(1,8)
s1=pd.Series(data=s**3,index=s)
print(s1)
```