1. Create a pandas DataFrame named **df** using below data:

```
d = {
   "cities": pd.Series(['Pretoria','Port Elizabeth','Johannesburg',' Bloemfontein', 'Durban'],
index=[0,1,2,3,4]),
   "popu_in_th": pd.Series([1.7, 1.0, 2.0, 3.2], index=[0,1,2,3]),
   "Nut_producer": pd.Series([10, 11, 7, 15 ], index=[0,1,2,3])
}
```

2. On the created dataframe df, perform following
    a. To get a series having city information
    b. To retrieve from df, only rows having popu_in_th is between 1.5 and 2.5 (Hint: Use two conditions connected by |)
    c. To get a row having integer index [2]
    d. To display first two rows of dataframe
    e. To get list of names of columns in dataframe.

3. Create a pandas Series **S1** containing 10 integers given below as [2, 4, 6, 8, 10, 12, 14, 16, 18, 20] having indices from ‘a’ through ‘j’ in order.

4. On the pandas Series **S1**, perform following
    a. To get value of series at index ‘d’.
    b. To add 15 to all values in series.
    c. To get subset of series which contain values 6, 12 and 18, which are divisible by 3.
    d. To create another series which contains square of the series values.