1) store marks of 5 subjects

here use marks as actual data and subject names as indexes.

accept both marks and subjects from the user.

from pandas import Series  
  
subs=[input("Enter sub name : ") for i in range(5) ]  
marks = [(int(input("Enter marks of them : " ))) for \_ in range(5)]  
  
record = Series(marks, subs)  
print(record)

2) create dictionary to store player name and runs scored of at least 5 players. Display it. Now convert this dictionary ‌into Series object and print it.

from pandas import Series  
  
demo = {"names":['Rolendo', 'Mousi',"Nemar", 'Bhirat', 'XYZ'], "runs":[20,30,40,50,60]}  
records = Series(demo["runs"], demo['names'])  
print(records)

3) accept 10 values and store them in the Series. Now perform following operations:

a) display the entire Series

b) extract 3rd element

c) extract elements from 4 to 7

d) extract elements from fourth last till the last element

e) extract first 3 elements

f) extract elements from the 5th position

from pandas import Series  
s = input("Enter 10 values : ")  
demo = Series(s.split())  
print("a) ", demo)  
print("b) ", demo[2])  
print("c) ", demo[4:8])  
print("d) ", demo[-4:])  
print("e) ", demo[:4])  
print("f) ", demo[5:])

4) accept 5 values in a Series and perform the following operations:

a) display their sum

b) add the value accepted from the user

c) subtract the value accepted from the user

d) multiply the value accepted from the user

e) add the value accepted from the user

from pandas import Series  
  
demo = Series([(int(input(f"Enter value no. {i+1}: "))) for i in range(5)])  
  
print("a. ", demo.sum())  
print("b. ", demo+(int(input("Enter num to add : "))))  
print("c. ", demo-(int(input("Enter num to subtract : "))))  
print("d. ", demo\*(int(input("Enter num to multiply : "))))  
print("e. ", demo+(int(input("Enter num to add : "))))

\*\*\*\*\*\*\*\*\*\* DataFrame Assignments \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

5) accept 5 names,designations and salaries and display them with DataFrame.

import pandas as pd  
  
names = [input(f"Enter name {i+1} : ") for i in range(5)]  
designations = [input(f"Enter designation {i+1} : ") for i in range(5)]  
salaries = [input(f"Enter salary {i+1} : ") for i in range(5)]  
  
df = pd.DataFrame(  
 {  
 "name":names,  
 "designation" : designations,  
 "salary" : salaries  
 }  
)  
print(df)

6) create a csv file (with whatever columns and rows you want) manually and then read using pandas.

import pandas as pd  
  
df = pd.read\_csv("DemoData.csv")  
print(df)

7) create "Vita.xlsx" using pandas. In this Excel file you have to create 2 sheets "DBDA", and "DAC".

in each sheet you have to write name,address and age of all the team leaders.

make sure Excel file gets created successfully.

import pandas as pd  
DAC\_Team = {  
 'name' : ['ABC', 'PQR'],  
 'address':['Mumbai', 'Pune'],  
 'age':[22,23]  
}  
DBDA\_Team = {  
 'name' : ['XYZ', 'MNO'],  
 'address':['Delhi', 'Bangalore'],  
 'age':[21,22]  
}  
  
DacDF = pd.DataFrame(DAC\_Team)  
DbdaDF = pd.DataFrame(DBDA\_Team)  
  
writer = pd.ExcelWriter('Vita.xlsx')  
  
DacDF.to\_excel(writer, sheet\_name = 'DAC', index = False)  
DbdaDF.to\_excel(writer, sheet\_name = 'DBDA', index = False)  
print("Done")