

```
In [2]: """
Que 1-Create a Pandas Series that contains the following data: 4, 8, 15, 16,
23, and 42. Then, print the series.

Ans 1
"""
import pandas as pd

d={'col1':[4,8,15,16,23,42]}

df=pd.DataFrame(data=d)
df.head( )
```

Out[2]:

	col1
0	4
1	8
2	15
3	16
4	23

```
In [6]: """
Que 2-Create a variable of list type containing 10 elements in it, and apply
pandas.Series function on the variable print it."""

d=[1,2,3,4,5,6,7,8,9,10]
df1=pd.Series(data=d)
print(df1.head())
print(type(df1))
```

```
0    1
1    2
2    3
3    4
4    5
dtype: int64
<class 'pandas.core.series.Series'>
```

In [9]:

```
"""
Que 3-
Q3. Create a Pandas DataFrame that contains the following data:

Then, print the DataFrame.

Name      Age  Gender
Alice     25   Female
Bob       30   Male
Claire    27   Female
"""

d={'Name':['Alice','Bob','Claire'],'Age':[25,30,27], 'Gender':['Female','Male']}
df3=pd.DataFrame(data=d)
df3.head()
```

Out[9]:

	Name	Age	Gender
0	Alice	25	Female
1	Bob	30	Male
2	Claire	27	Female

In [ ]:

```
"""
Que 4-What is 'DataFrame' in pandas and how is it different from pandas.series
Explain with an example.
Ans 4-
A DataFrame is a data structure that organizes data into a 2-dimensional table
of rows and columns, much like a spreadsheet

Series elements must be of the same data type. Heterogenous - DataFrame
elements can have different data types
"""
```

```
In [10]: """
Que 5-What are some common functions you can use to manipulate data in a Panda
DataFrame? Can you give an example of when you might use one of these function
Ans 5 some common function in the python

1) describe()
2) isnull()
3) dtype()
4) .head() or tail()

Que 6-Which of the following is mutable in nature Series, DataFrame, Panel?
Ans 6- Series are notmutable
      DataFrame are mutable
      Panel are mutable

Que-7. Create a DataFrame using multiple Series. Explain with an example.
Ans 7-
"""
import pandas as pd

d=['ashish','Rakesh','vaibhav']
df5=pd.DataFrame(data=d)
df5.head(5)
```

```
Out[10]:
```

	0
0	ashish
1	Rakesh
2	vaibhav

```
In [ ]:
```