Task 1:

Program 1

```
========== RESTART: C:\python\sprint3\taskpractice2.py ==========
   rank discipline  phd  service   sex  salary
0  Prof          B   56       49  Male  186960
1  Prof          A   12        6  Male   93000
2  Prof          A   23       20  Male  110515
3  Prof          A   40       31  Male  131205
4  Prof          B   20       18  Male  104800
```

Program 2

```
========== RESTART: C:\python\sprint3\taskpractice2.py ==========
first few rows of the DataFrame:
   Unnamed: 0  HP        MPG  VOL          SP         WT
0           0  49  53.700681   89  104.185353  28.762059
1           1  55  50.013401   92  105.461264  30.466833
2           2  55  50.013401   92  105.461264  30.193597
3           3  70  45.696322   92  113.461264  30.632114
4           4  53  50.504232   92  104.461264  29.889149
last few rows of the DataFrame:
    Unnamed: 0   HP        MPG  VOL          SP         WT
76          76  322  36.900000   50  169.598513  16.132947
77          77  238  19.197888  115  150.576579  37.923113
78          78  263  34.000000   50  151.598513  15.769625
79          79  295  19.833733  119  167.944460  39.423099
80          80  236  12.101263  107  139.840817  34.948615
(81, 6)
<bound method NDFrame.describe of     Unnamed: 0   HP        MPG  VOL          SP         WT
0            0   49  53.700681   89  104.185353  28.762059
1            1   55  50.013401   92  105.461264  30.466833
2            2   55  50.013401   92  105.461264  30.193597
3            3   70  45.696322   92  113.461264  30.632114
4            4   53  50.504232   92  104.461264  29.889149
..         ...  ...        ...  ...         ...        ...
76          76  322  36.900000   50  169.598513  16.132947
77          77  238  19.197888  115  150.576579  37.923113
78          78  263  34.000000   50  151.598513  15.769625
79          79  295  19.833733  119  167.944460  39.423099
80          80  236  12.101263  107  139.840817  34.948615

[81 rows x 6 columns]>
```

Task 2

```
DataFrame Creation:
    Name  Age      City
0   John   25  New York
1   Jane   30    London
2   Babu   35     Paris
3  Peter   40        UK
4   Leju   55   Germany
The first five rows of the DataFrame
    Name  Age      City
0   John   25  New York
1   Jane   30    London
2   Babu   35     Paris
3  Peter   40        UK
4   Leju   55   Germany
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 5 entries, 0 to 4
Data columns (total 3 columns):
 #   Column  Non-Null Count  Dtype
---  ------  --------------  -----
 0   Name    5 non-null      object
 1   Age     5 non-null      int64
 2   City    5 non-null      object
dtypes: int64(1), object(2)
memory usage: 252.0+ bytes
None
```

Task 3:

```
  Department Employee ID  Salary  Work Experience  Age
0        MCA         001   25000                8   29
1        MCA         002   62000               17   40
2        MBA         003   90000               10   32
3        MBA         004   99000               11   39
4        MCA         005   90000               25   45
Department
MBA    94500.0
MCA    59000.0
Name: Salary, dtype: float64
Department
MBA    94500.0
Name: Salary, dtype: float64
                          Salary          Age
                             sum   median sum  mean
Department Work Experience
MBA        10              90000  90000.0  32  32.0
           11              99000  99000.0  39  39.0
MCA        8               25000  25000.0  29  29.0
           17              62000  62000.0  40  40.0
           25              90000  90000.0  45  45.0
Department
MBA    90000
MCA    25000
Name: Salary, dtype: int64
```