Task 1

```
========== RESTART: D:/python/sprint3/ta
   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

```
    HP        MPG  VOL         SP        WT
0   49  53.700681   89  104.185353  28.762059
1   55  50.013401   92  105.461264  30.466833
2   55  50.013401   92  105.461264  30.193597
3   70  45.696322   92  113.461264  30.632114
4   53  50.504232   92  104.461264  29.889149
```

Head

```
========== RESTART: D:/python/sprin
   HP        MPG  VOL         SP        WT
0  49  53.700681   89  104.185353  28.762059
1  55  50.013401   92  105.461264  30.466833
2  55  50.013401   92  105.461264  30.193597
3  70  45.696322   92  113.461264  30.632114
4  53  50.504232   92  104.461264  29.889149
```

Tail

```
---------- RESTART: D:/python/sprint3
     HP        MPG  VOL         SP        WT
76  322  36.900000   50  169.598513  16.132947
77  238  19.197888  115  150.576579  37.923113
78  263  34.000000   50  151.598513  15.769625
79  295  19.833733  119  167.944460  39.423099
80  236  12.101263  107  139.840817  34.948615
```

Shape

```
============
(81, 5)
```

Describe

```
====================== RESTART: D:/python/sprint3/task2.py =========
                HP         MPG          VOL          SP         WT
count   81.000000   81.000000    81.000000   81.000000  81.000000
mean   117.469136   34.422076    98.765432  121.540272  32.412577
std     57.113502    9.131445    22.301497   14.181432   7.492813
min     49.000000   12.101263    50.000000   99.564907  15.712859
25%     84.000000   27.856252    89.000000  113.829145  29.591768
50%    100.000000   35.152727   101.000000  118.208698  32.734518
75%    140.000000   39.531633   113.000000  126.404312  37.392524
max    322.000000   53.700681   160.000000  169.598513  52.997752
```

Task 2

```
====================== RESTART: D:/python/s
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

To retrieve the first five rows
    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: 248.0+ bytes
None
```

Task 3

```
========== RESTART: D:\python\sprint3\task2.py ==========
Department
Finance    62500.0
HR         51000.0
IT         71000.0
Name: Salary, dtype: float64

Multiple columns
             Salary                 YearsOfExperience             Age
               mean    min    max              mean sum        mean
Department
Finance     62500.0  60000  65000               5.5  11  35.500000
HR          51000.0  50000  52000               4.0  12  28.333333
IT          71000.0  70000  72000               7.5  15  32.500000


             Salary                 YearsOfExperience       Age
               mean    min    max              mean sum  mean
Department
Finance     62500.0  60000  65000               5.5  11  35.5
IT          71000.0  70000  72000               7.5  15  32.5

                 Age   Salary
                mean     mean
Department
Finance     35.500000  62500.0
HR          28.333333  51000.0
IT          32.500000  71000.0
```