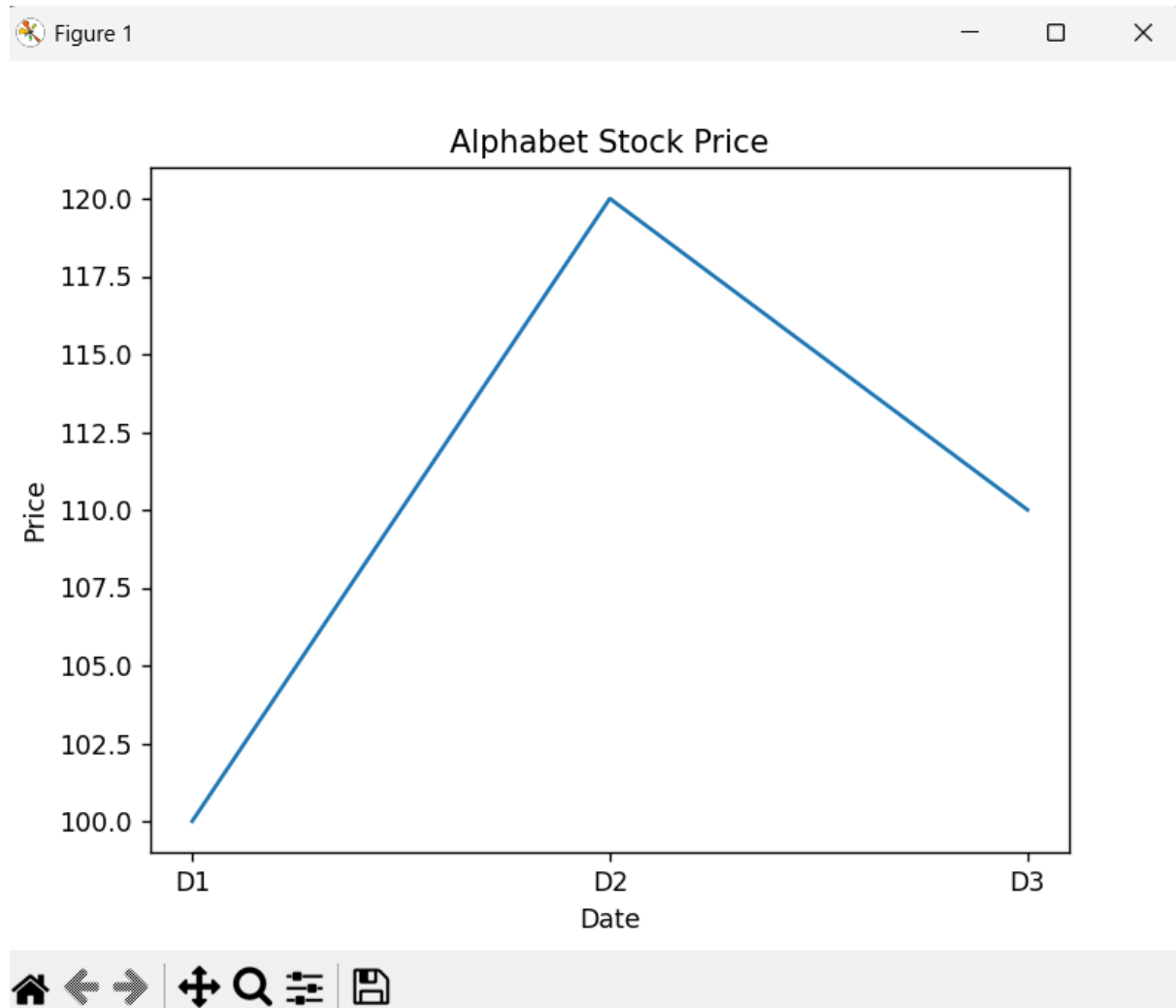
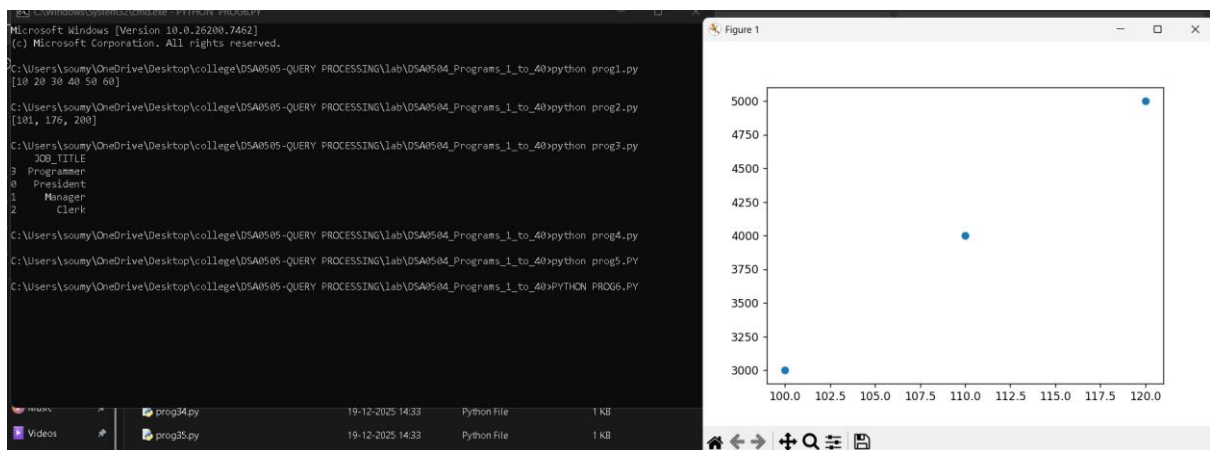
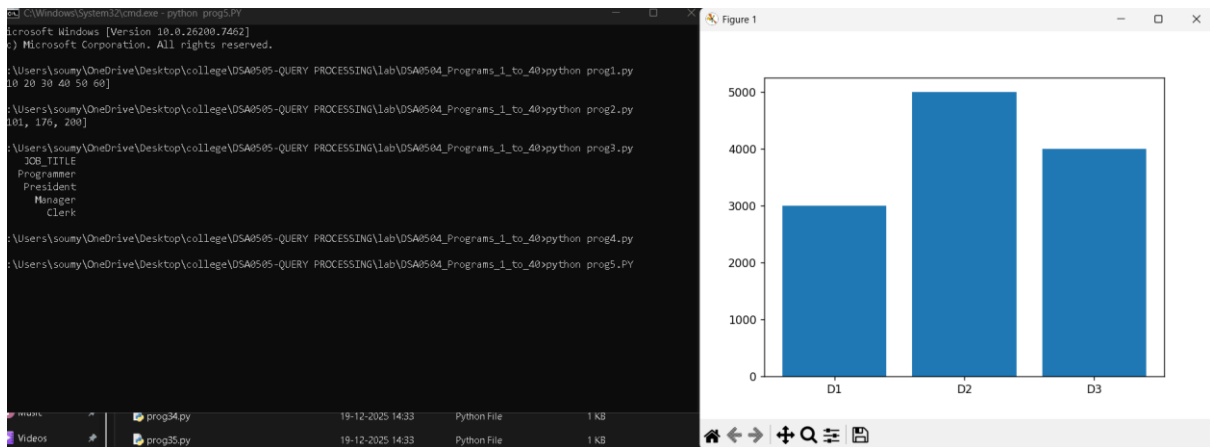
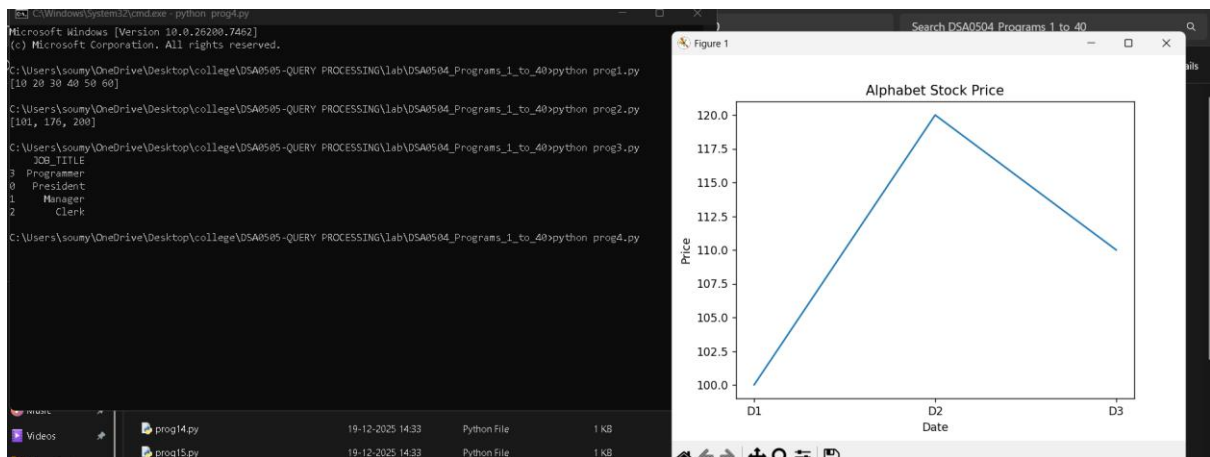


```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog1.py  
[10 20 30 40 50 60]  
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>_
```





```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG7.PY
```

	min	max
Sale_amt	30000	70000
item		
mobile	30000	30000
TV	50000	70000

```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG8.PY
Units
Item
Mobile      15
TV          30
```

```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG9.PY
Sale_amt
Region Manager SalesMan
East   Martha Alex      80000
West   Douglas Mike     40000
```

```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG10.PY
0 1 2 3
0 -0.566374 -0.148836 0.158328 -0.873940
1 0.887843 1.825423 -1.351189 -1.304109
2 -0.706120 0.285925 0.583594 -0.000630
3 -0.272146 1.637439 1.447698 -1.987673
4 0.473057 -0.381107 0.882194 -0.146277
5 -0.126624 0.179152 -1.257976 -0.440947
6 -1.266152 -0.863820 0.178038 0.873419
7 0.578440 1.204040 1.501800 0.163382
8 0.027845 0.179649 0.030130 1.627011
9 1.082991 1.540060 -0.286496 -1.614369
```

```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG11.PY
0 1 2 3
0 -2.752831 0.656628 0.834158 -0.540021
1 -1.157934 0.050663 2.488881 -1.654054
2 0.287737 1.449981 NaN -0.901493
3 0.801823 0.633130 1.066230 0.462729
4 0.717114 -0.811372 0.123299 0.443415
5 0.919040 -1.106948 1.038609 -0.714204
6 0.362896 -1.277626 -0.856572 0.096900
7 -0.959153 0.181255 0.128529 -0.122695
8 0.499613 -0.260038 -1.495760 -1.301469
9 -0.416884 -1.046530 1.986232 0.281622
```

```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG12.PY
0 1 2 3
0 0.873058 0.237152 0.961442 -0.496339
1 -0.287109 2.459061 -0.001817 -0.234125
2 0.918563 0.508135 1.061043 0.770777
3 -0.332466 0.217953 1.938370 -0.389375
4 1.027706 1.205816 -2.401565 0.696477
5 1.150927 0.800658 0.666426 -1.627444
6 2.086025 0.539828 -0.412647 -0.379672
7 -0.366765 -0.315381 -0.609272 -1.073338
8 0.978774 -0.087844 2.314430 -0.176776
9 0.121282 -0.234850 -0.535395 0.466079
```

```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG13.PY
A B
0 False False
1 True False
2 False True
```

```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG14.PY
A B
0 1.0 4.0
1 0.0 5.0
2 3.0 0.0
```

```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG15.PY
      A      B
0  NaN  NaN
```

```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG17.PY
      mean  min  max
school_code
S1      12.5   12   13
S2      14.0   14   14
```

```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG18.PY
      age
school_code class
S1          V   12.0
          VI   13.0
S2          V   14.0
```

```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG19.PY
(2, 2)
Index(['A', 'B'], dtype='object')
```

```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG20.PY
0    -1
1    -1
Name: name, dtype: int64
```

```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG21.PY
0    hello world
Name: text, dtype: object
```

