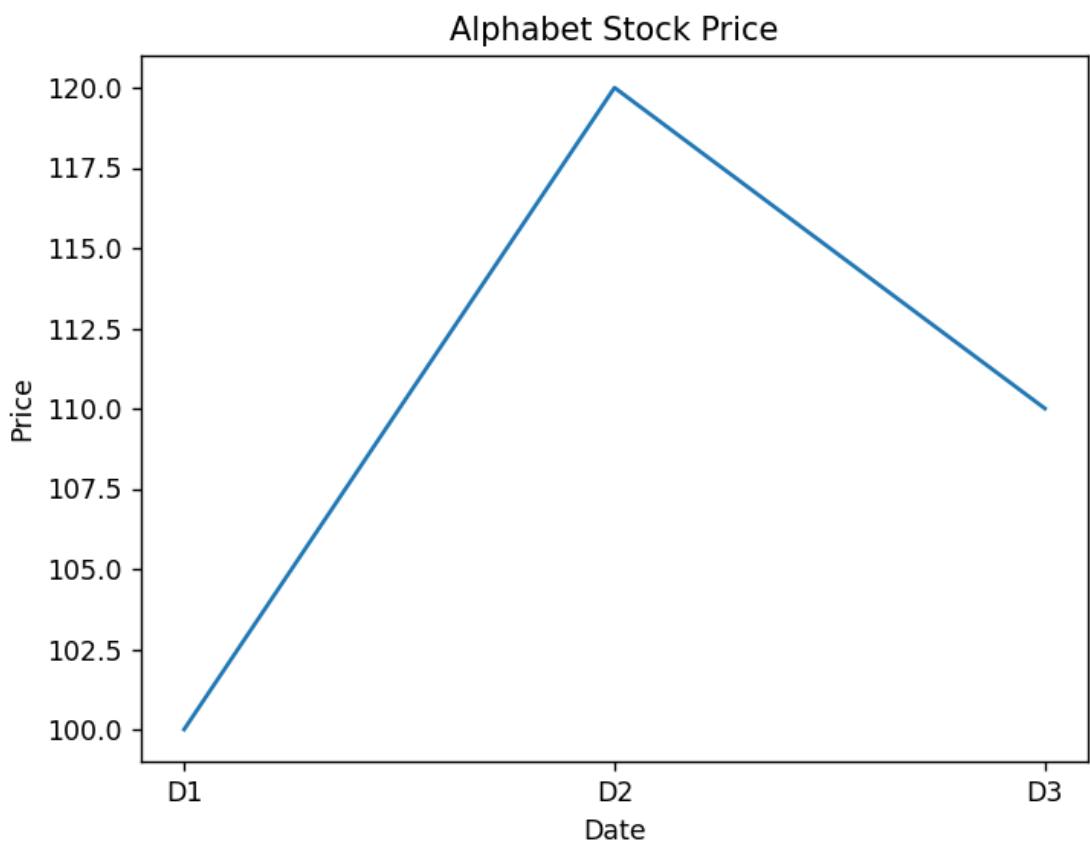


```
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog1.py  
[10 20 30 40 50 60]
```

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

Figure 1



```
C:\Windows\system32\cmd.exe - python prog4.py
Microsoft Windows [Version 10.0.26200.7462]
(c) Microsoft Corporation. All rights reserved.

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

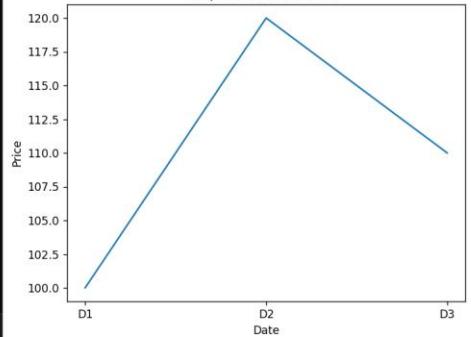
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog2.py
[101, 176, 200]

C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog3.py
JOB_TITLE
3 Programmer
0 President
1 Manager
2 Clerk

C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog4.py

Figure 1
```

Alphabet Stock Price



Date	Price
D1	101
D2	119
D3	111

```
C:\Windows\system32\cmd.exe - python prog5.py
Microsoft Windows [Version 10.0.26200.7462]
(c) Microsoft Corporation. All rights reserved.

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

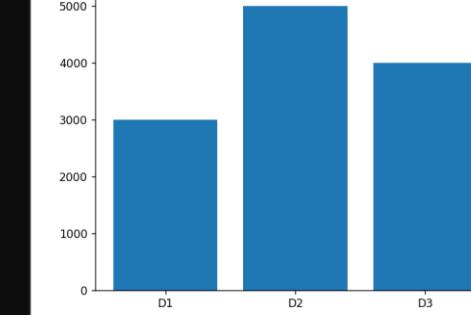
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog2.py
[101, 176, 200]

C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog3.py
JOB_TITLE
Programmer
President
Manager
Clerk

C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog4.py
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog5.py

Figure 1
```

Bar Chart



Category	Value
D1	3000
D2	5000
D3	4000

```
C:\Windows\system32\cmd.exe - python PROG6.py
Microsoft Windows [Version 10.0.26200.7462]
(c) Microsoft Corporation. All rights reserved.

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

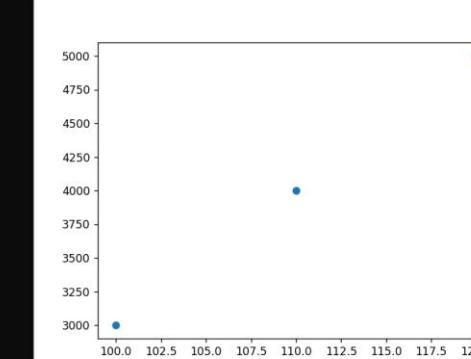
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog2.py
[101, 176, 200]

C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog3.py
JOB_TITLE
3 Programmer
0 President
1 Manager
2 Clerk

C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog4.py
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog5.py
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG6.PY

Figure 1
```

Scatter Plot



X	Y
110.0	4000
120.0	5000

```
.. C:\Windows\system32\cmd.exe - python PROG7.PY
C:\Users\soumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG7.PY
      min      max
      Sale_amt Sale_amt
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
Region Manager SalesMan
Sale_amt
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 -0.00630
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
```

```

<class 'pandas.core.groupby.generic.DataFrameGroupBy'>
C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG17.PY
  school_code      mean   min   max
S1           12.5    12    13
S2           14.0    14    14

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

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

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

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>PYTHON PROG21.PY
  0 hELLO wORLD
Name: text, dtype: object

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog22.py
  1
  1 -1
Name: name, dtype: int64

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog23.py
  1
  1 -1
Name: name, dtype: int64

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog24.py
  1
  1 -1
Name: name, dtype: int64

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog25.py
  1
  1 -1
Name: name, dtype: int64

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog26.py
  1
  1 -1
Name: name, dtype: int64

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog27.py
  1
  1 -1
Name: name, dtype: int64

```

```

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

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

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

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

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python PROG21.PY
  0 hELLO wORLD
Name: text, dtype: object

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog22.py
  1
  1 -1
Name: name, dtype: int64

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog23.py
  1
  1 -1
Name: name, dtype: int64

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog24.py
  1
  1 -1
Name: name, dtype: int64

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog25.py
  1
  1 -1
Name: name, dtype: int64

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog26.py
  1
  1 -1
Name: name, dtype: int64

C:\Users\sumy\OneDrive\Desktop\college\DSA0505-QUERY PROCESSING\lab\DSA0504_Programs_1_to_40>python prog27.py
  1
  1 -1
Name: name, dtype: int64

```