

#GE ASSIGNMENT 3

#1.>Write a program to create a PANDAS Data Series as shown below:
#PLOT GRAPHS:

```
import pandas as pd
import matplotlib.pyplot as plt
product=pd.Series({'1221':20,'1222':55,'1223':30,'1224':70,'1225':40,'1226':60})
product.name='sales'
product.index.name='product ID'
print(product)

product.plot(marker='X', ms=15,mec='r',mfc='r',color='r',linestyle='--',label='Makers',figsize=(5,5))
plt.xlabel('product ID')
plt.ylabel('sales')
plt.legend(loc='lower center')|
plt.show()

product.plot.area(color='b',label='Marks',figsize=(5,5))
plt.xlabel('product ID')
plt.ylabel('sales')
plt.legend(loc='lower center')
plt.show()

product.plot.bar(color='c',label='Marks',figsize=(3,3))
plt.xlabel('product ID')
plt.ylabel('sales')
plt.legend(loc='lower center')
plt.show()
```

```
product.plot.barh(color='c', label='Marks', figsize=(3, 3))
plt.xlabel('product ID')
plt.ylabel('sales')
plt.legend(loc='lower center')
plt.show()

product.plot.box(color='m', label='product ID', figsize=(3, 3))
plt.ylabel('sales')
plt.show()

product.plot.hist(bins=6, figsize=(3, 3))
plt.ylabel('sales')
plt.show()

product.plot.pie(label='Marks', autopct='%1.1f%%')
plt.ylabel('sales')
plt.show()

print('.....')
```

```
product  ID
1221      20
1222      55
1223      30
1224      70
1225      40
1226      60
Name: sales, dtype: int64
```

Figure 1

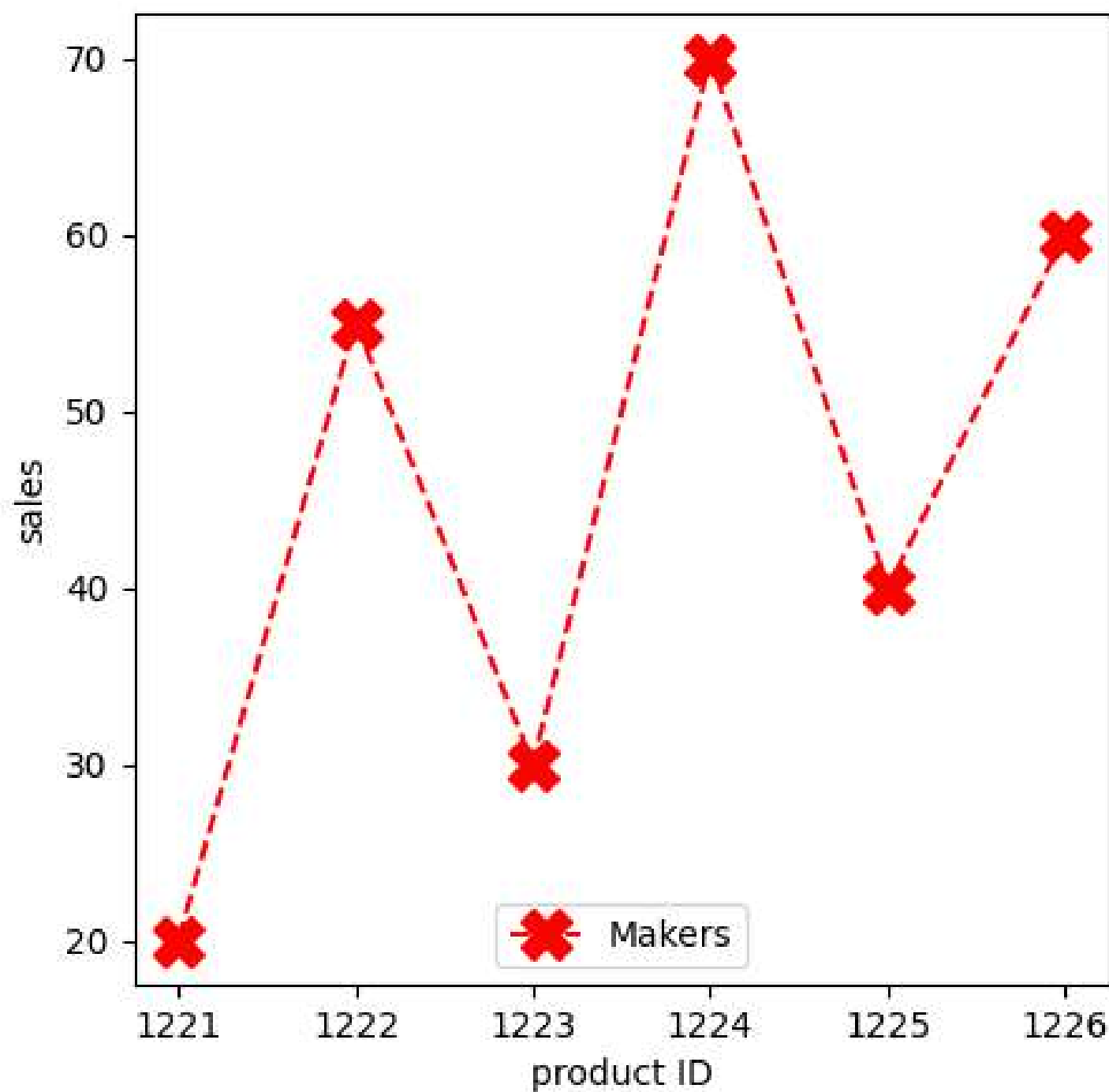


Figure 1

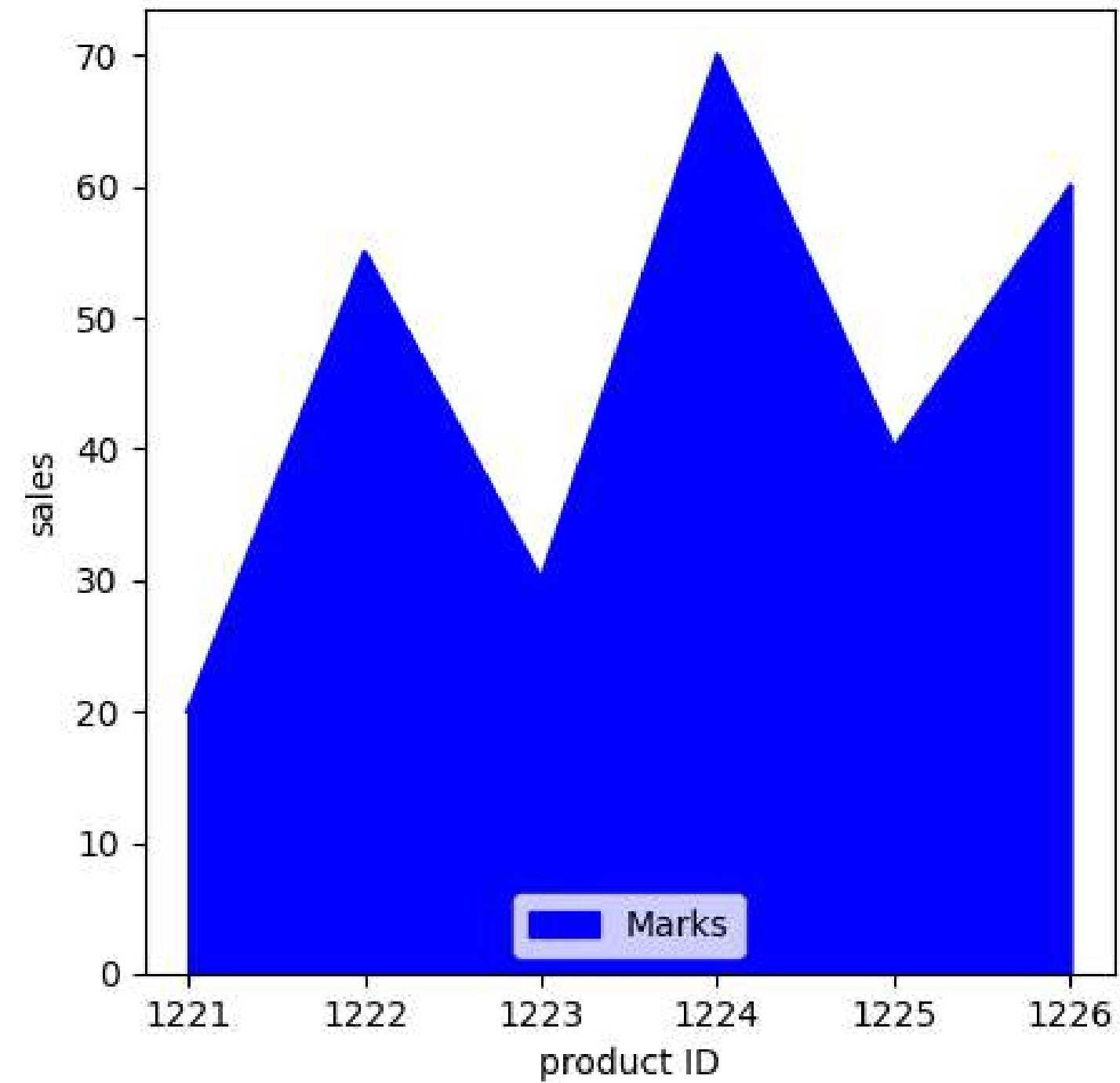
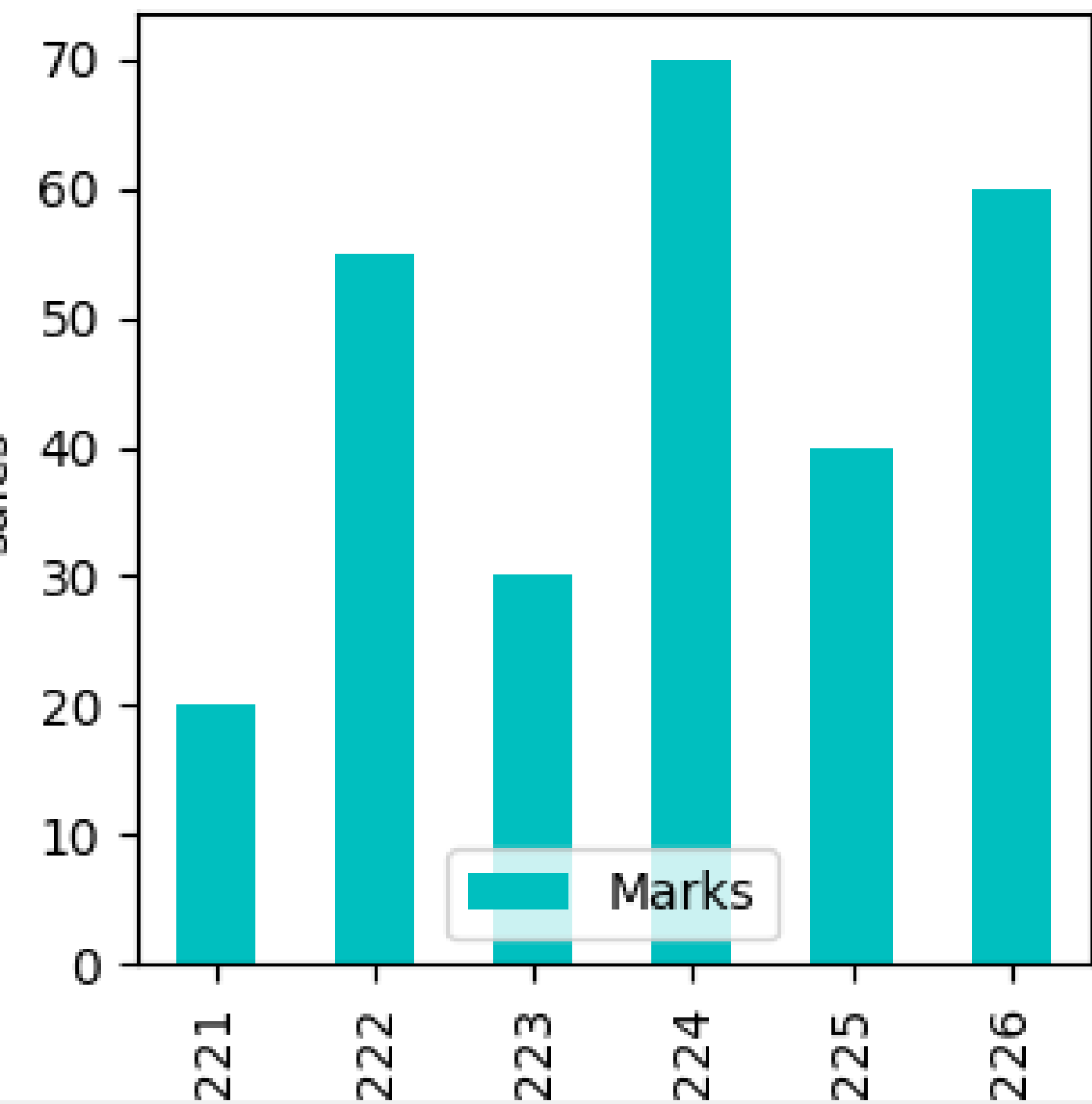
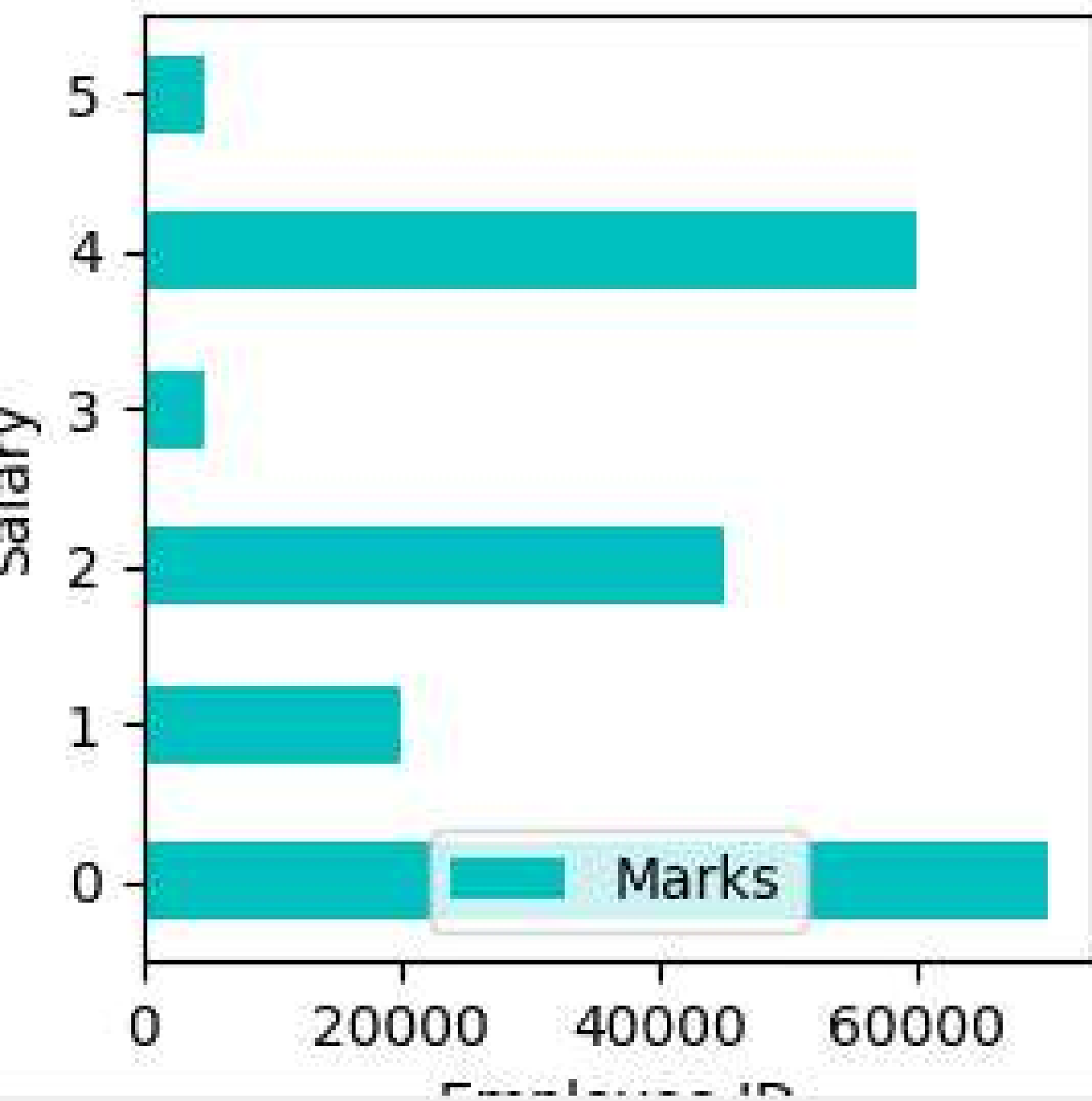




Figure 1





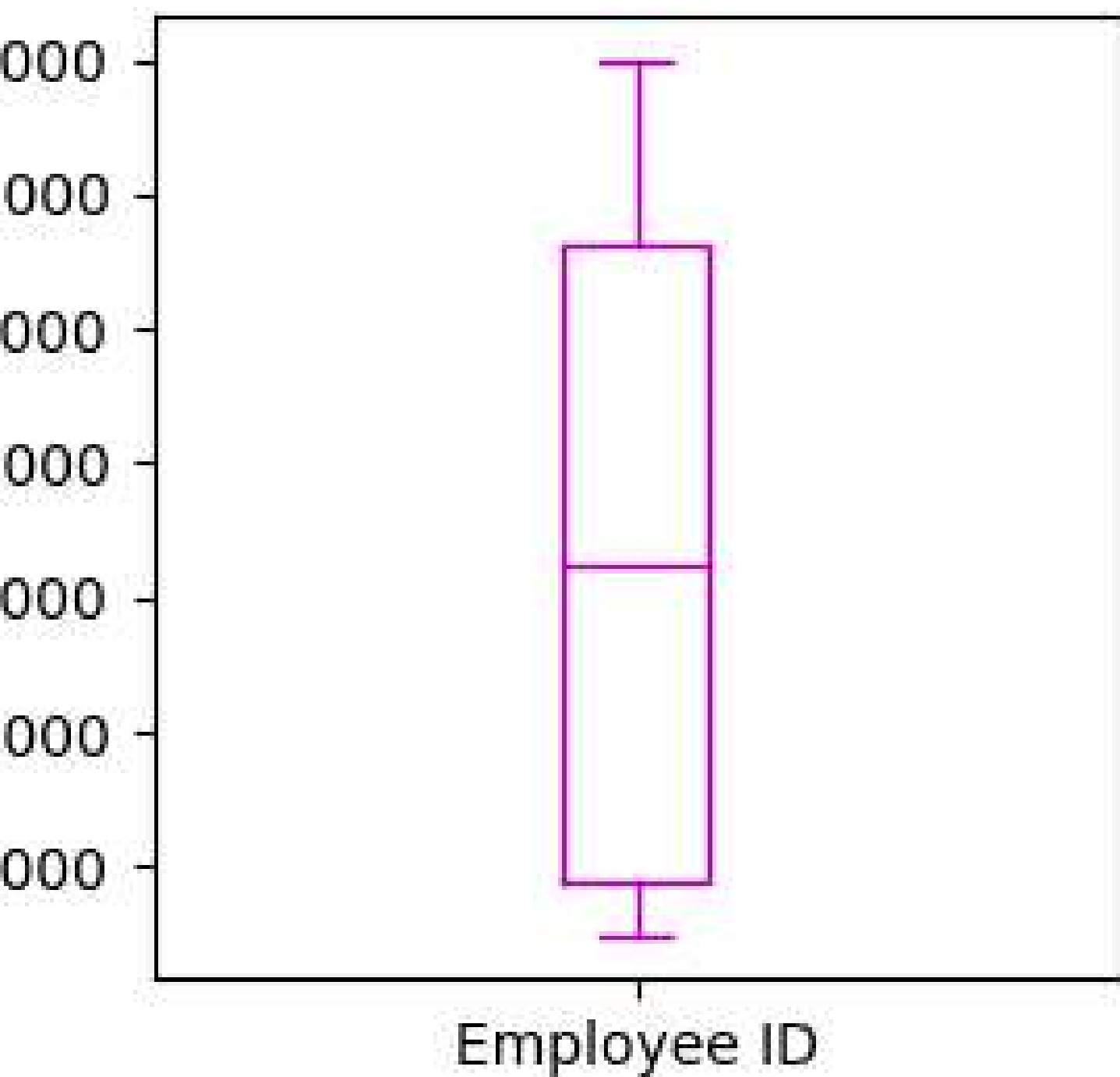


Figure 1

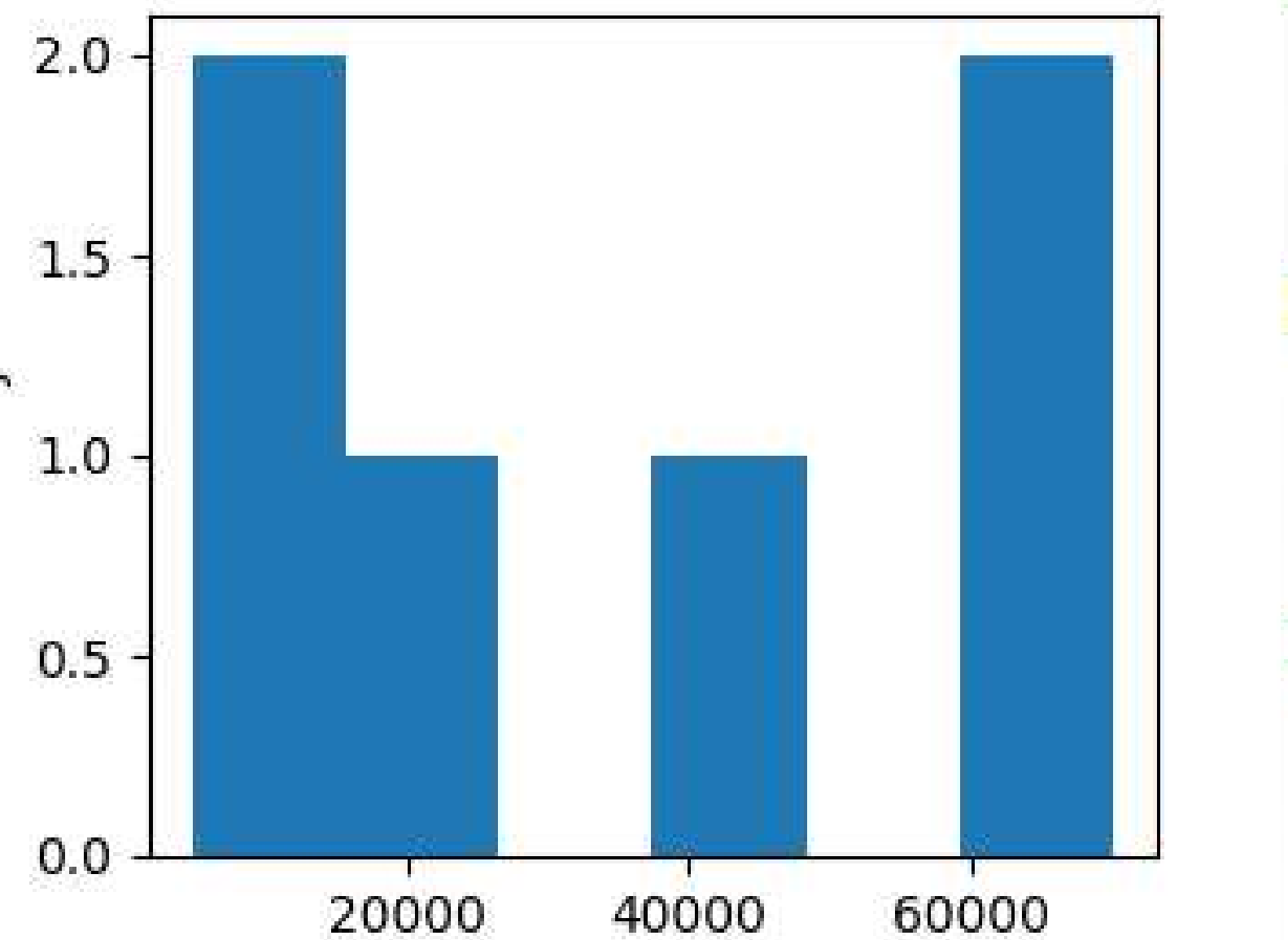
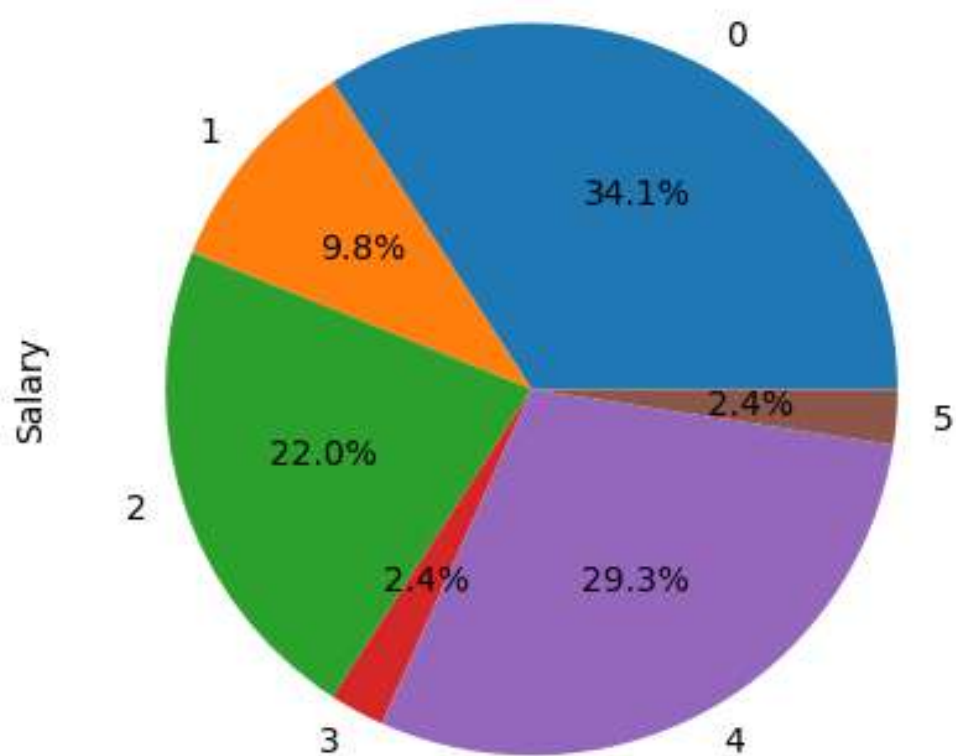


Figure 1



#2.>Write a program to create a PANDAS Data Series as shown below:
#Plot Graphs

```
salary=pd.Series({'0':70000,'1':20000,'2':45000,'3':5000,'4':60000,'5':5000})
salary.name='SALARY'
salary.index.name='EMPLOYEE ID'
print(salary)
```

```
print("\nInvalid/Missing Entries")
print(salary.isnull())
```

```
print("\nFILLING Invalid/Missing Entries")
print(salary.fillna(5000))
```

```
salary.plot(marker='X', ms=15, mec='r', mfc='r', color='r', linestyle='--', label='Makers', figsize=(5,5))
plt.xlabel('Employee ID')
plt.ylabel('Salary')
plt.legend(loc='lower center')
plt.show()
```

```
salary.plot.area(color='b',label='Marks',figsize=(5,5))
plt.xlabel('Employee ID')
plt.ylabel('Salary')
plt.legend(loc='lower center')
plt.show()
```

```
salary.plot.bar(color='c',label='Marks',figsize=(3,3))
plt.xlabel('Employee ID')
plt.ylabel('Salary')
plt.legend(loc='lower center')
plt.show()
```

```
salary.plot.barh(color='c',label='Marks',figsize=(3,3))
plt.xlabel('Employee ID')
plt.ylabel('Salary')
plt.legend(loc='lower center')
plt.show()
```

```
salary.plot.box(color='m',label='Employee ID',figsize=(3,3))
plt.ylabel('Salary')
plt.show()
```

```
salary.plot.hist(bins=6,figsize=(3,3))
plt.ylabel('Salary')
plt.show()
```

```
salary.plot.pie(label='Marks',autopct='%1.1f%%')
plt.ylabel('Salary')
plt.show()
```

EMPLOYEE ID

0 70000

1 20000

2 45000

3 5000

4 60000

5 5000

Name: SALARY, dtype: int64

Invalid/Missing Entries

EMPLOYEE ID

0 False

1 False

2 False

3 False

4 False

5 False

Name: SALARY, dtype: bool

FILLING Invalid/Missing Entries

EMPLOYEE ID

0 70000

1 20000

2 45000

3 5000

4 60000

5 5000

Name: SALARY, dtype: int64

Figure 1

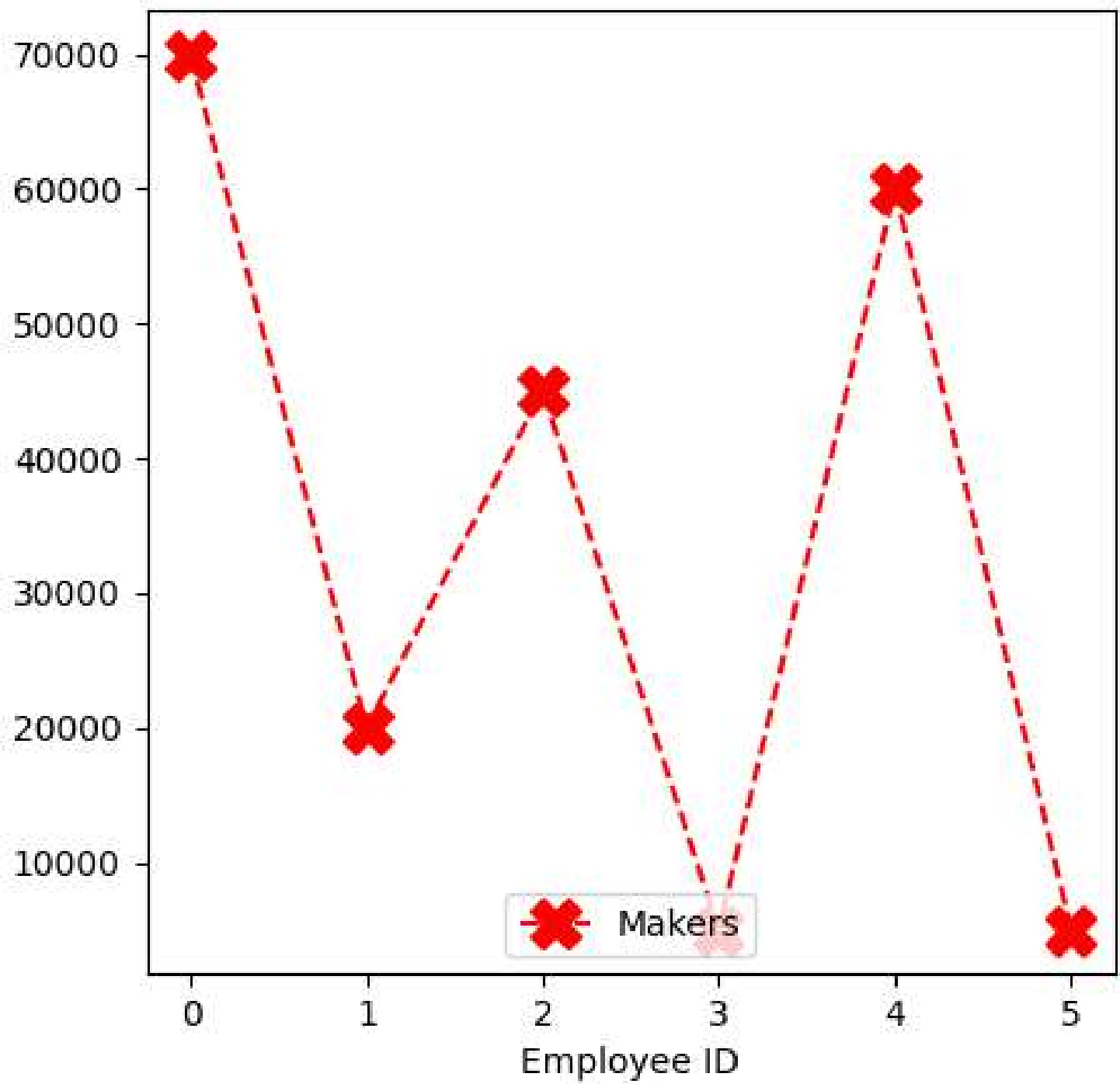


Figure 1

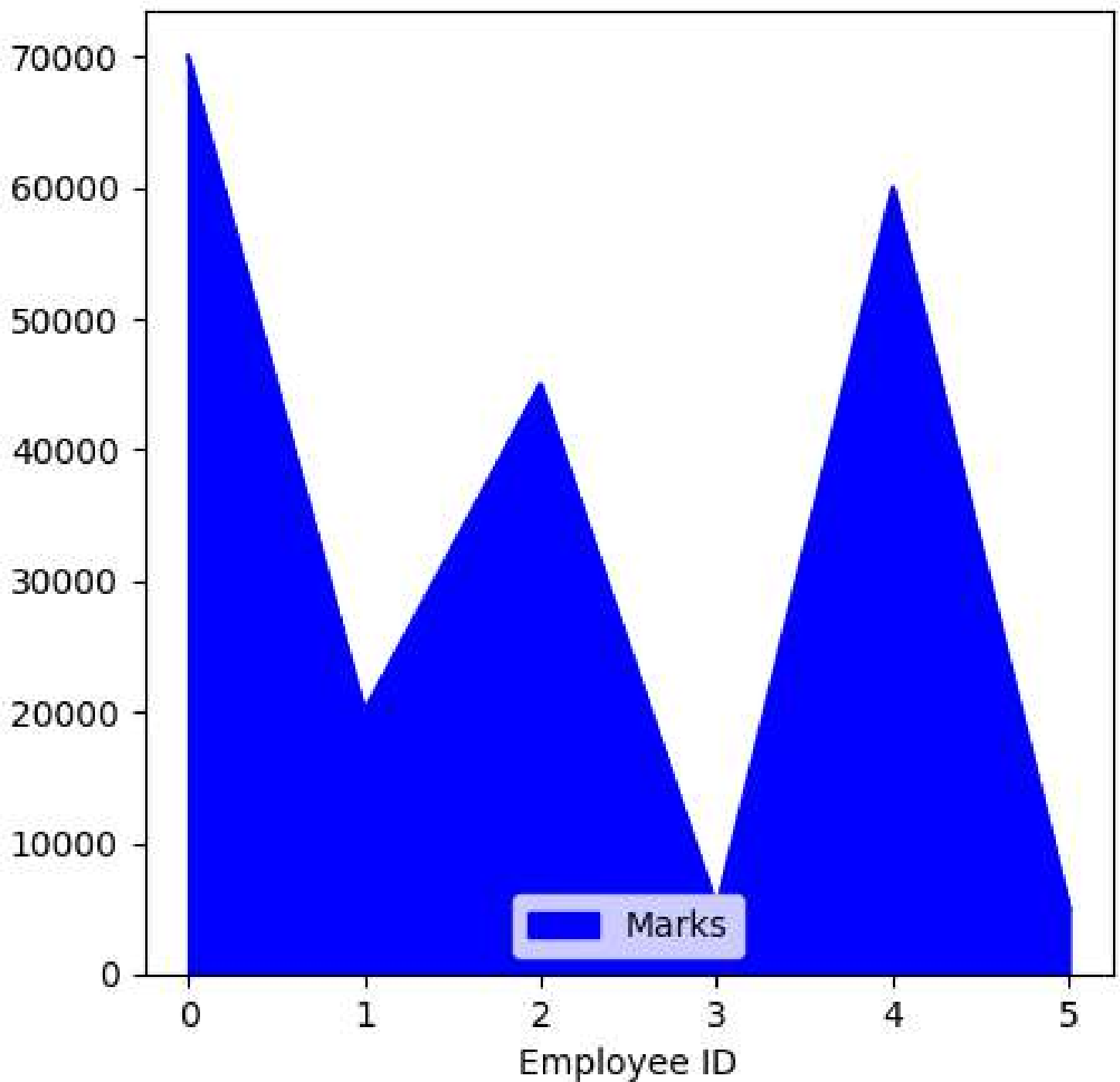
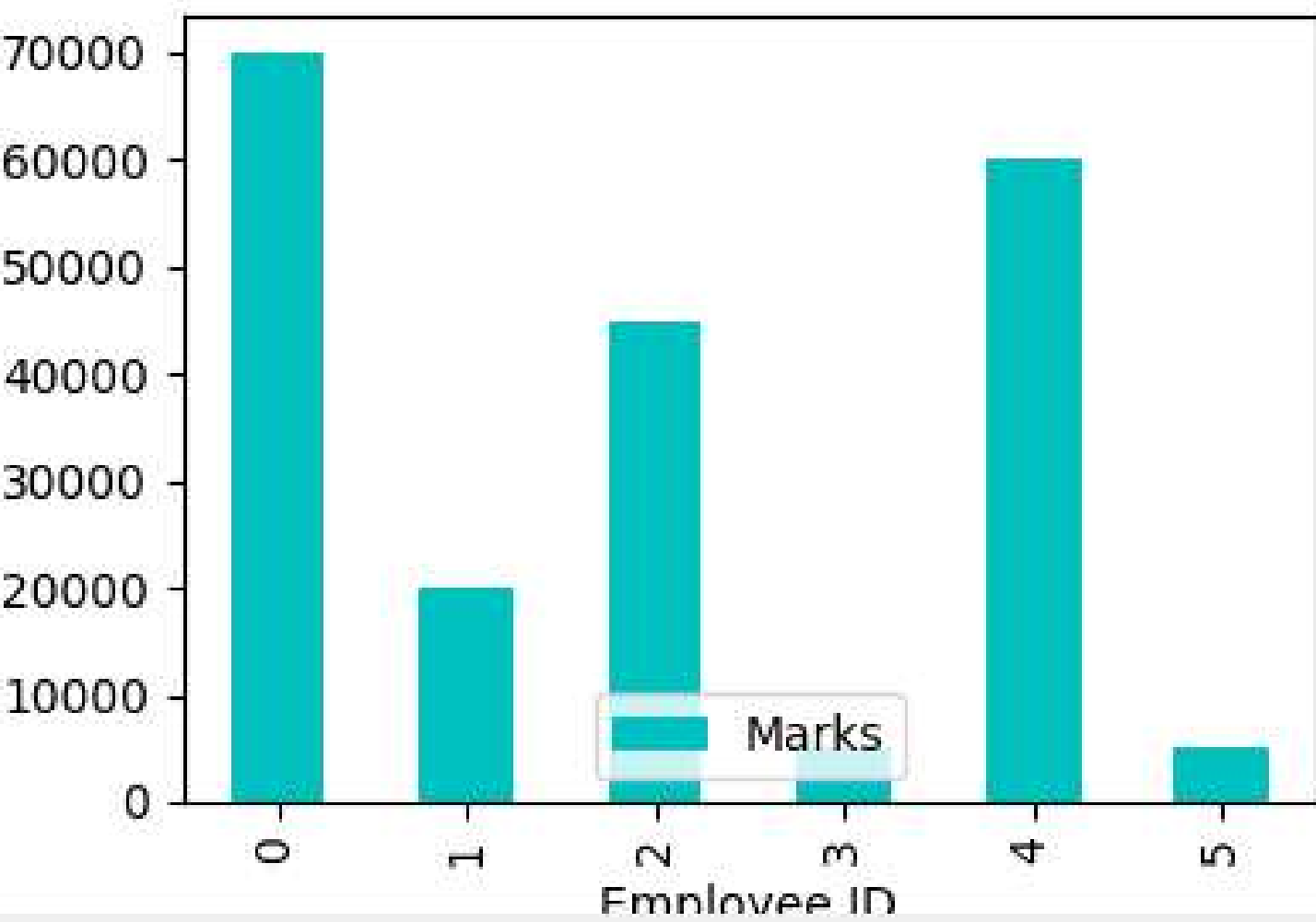
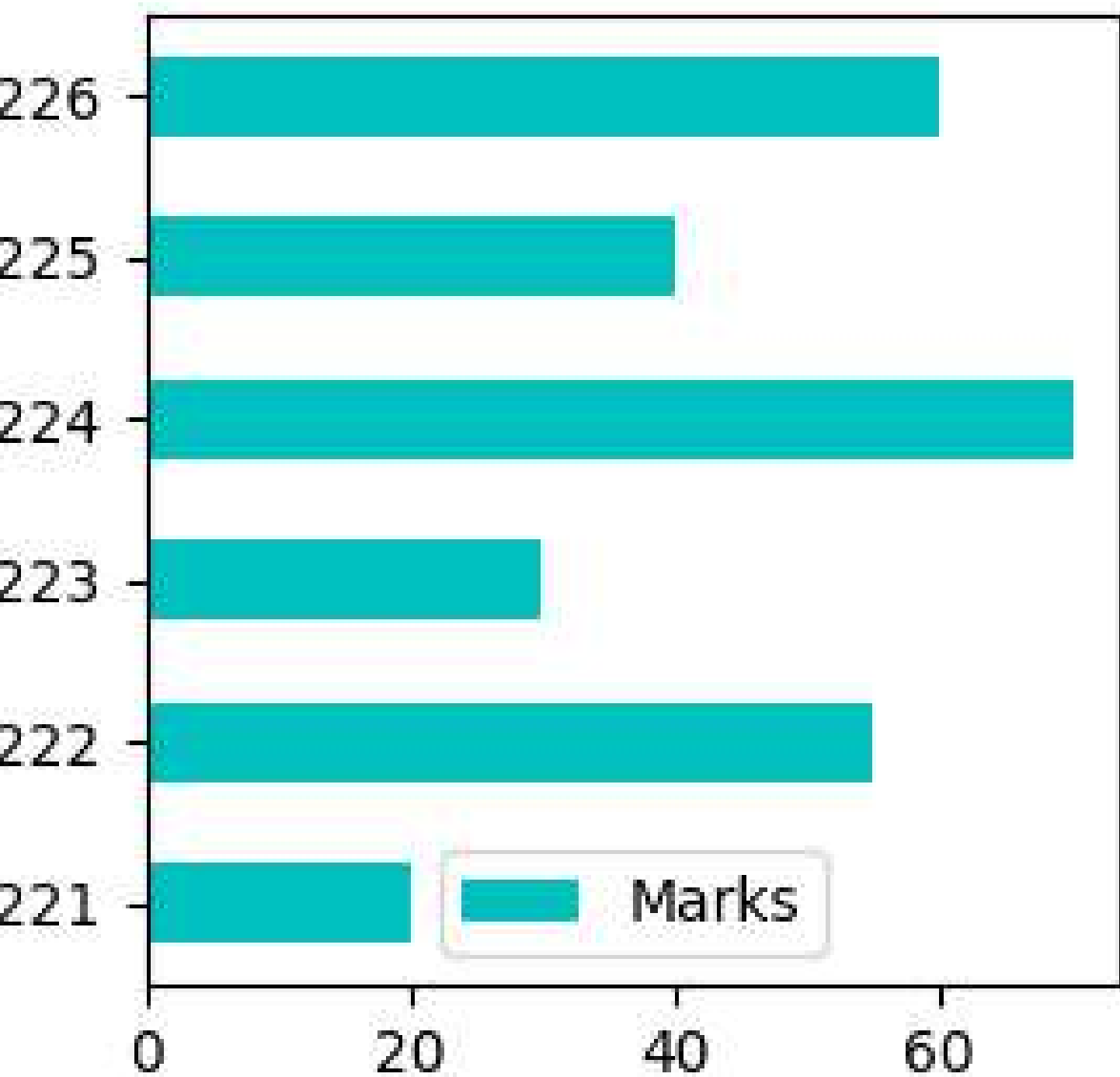
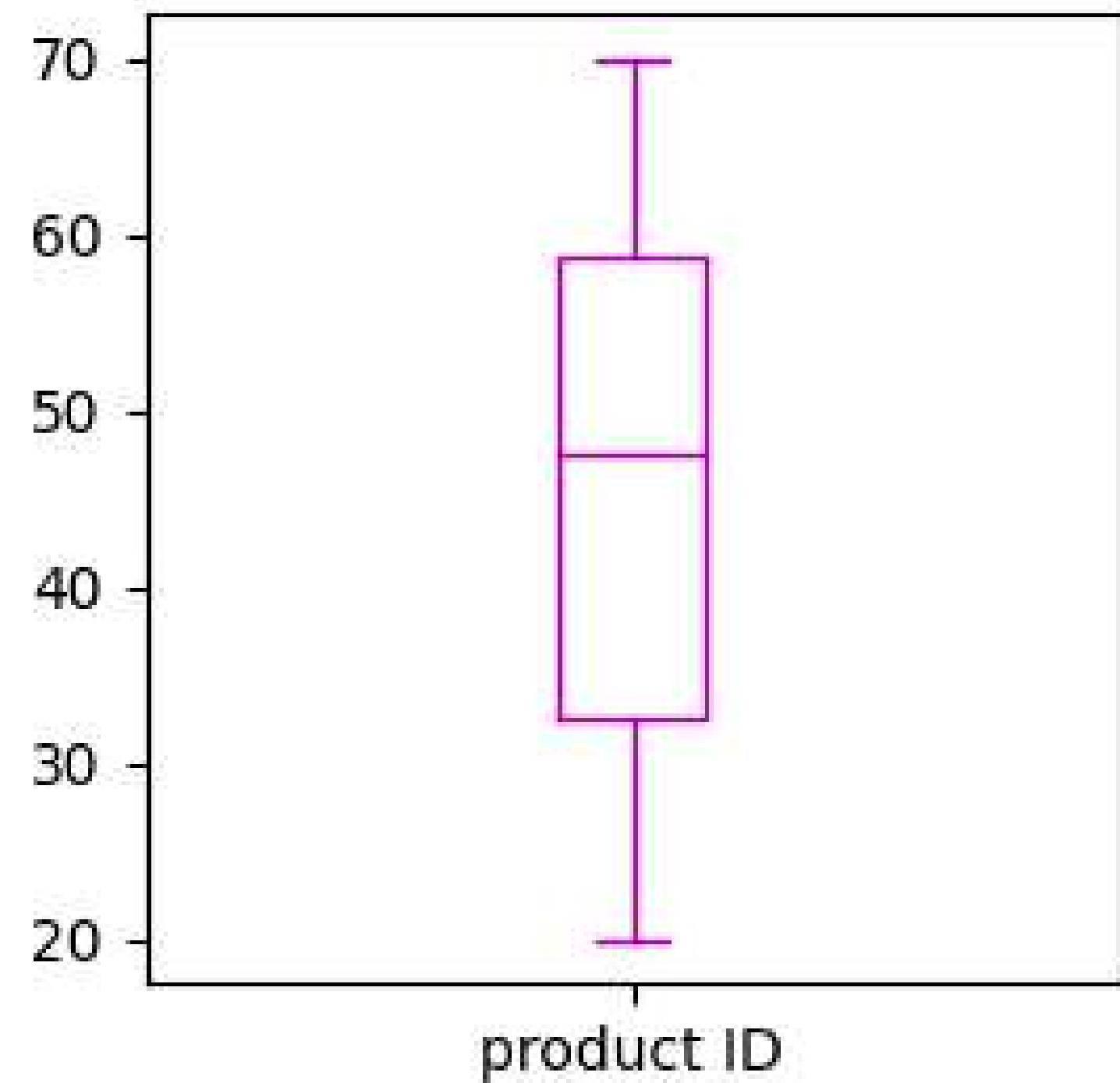


Figure 1







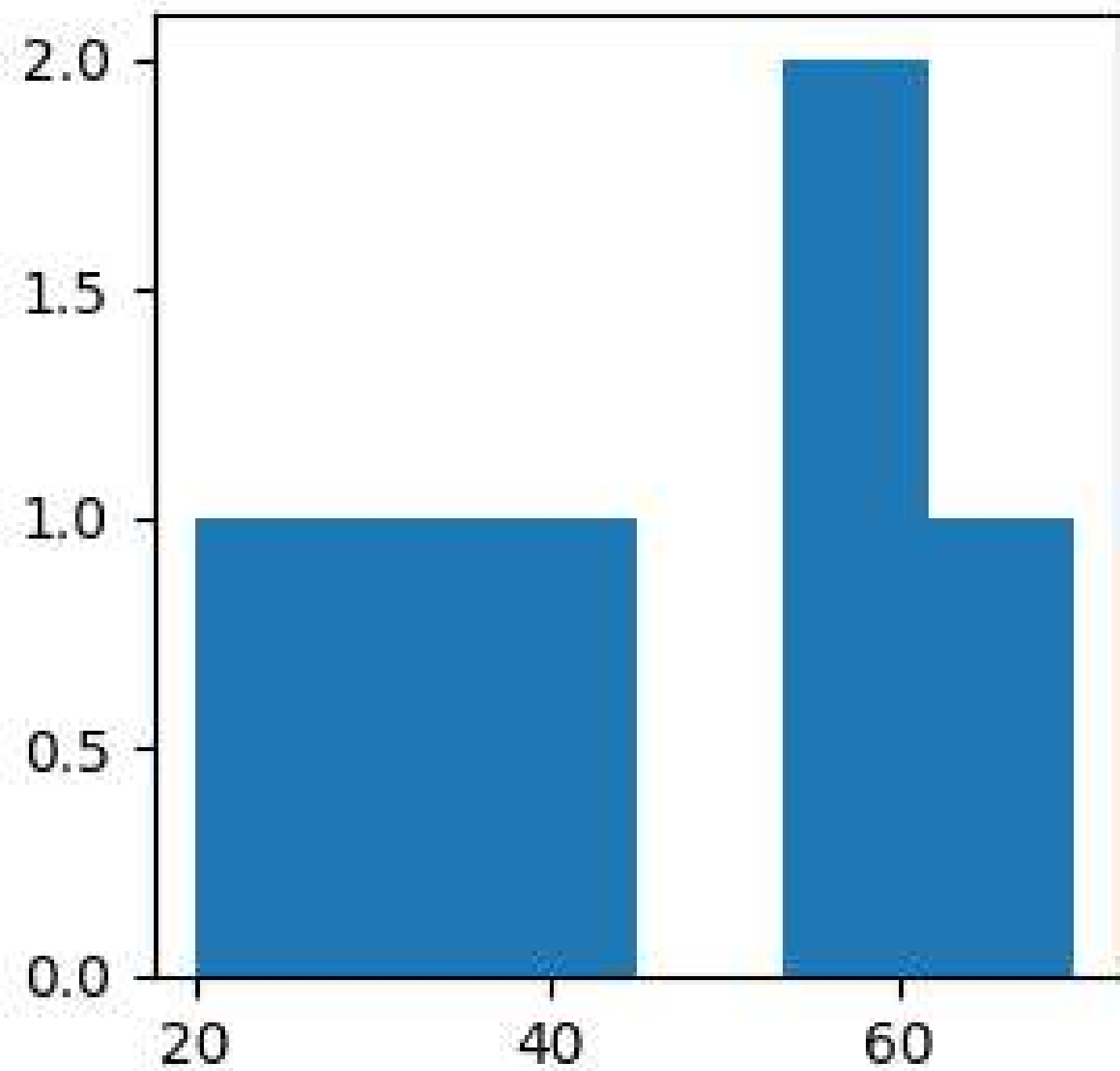


Figure 1

