In [1]:
```
import pandas as pd
```

In [5]:
```
data=pd.read_csv("Superstore.csv",encoding= "ISO-8859-1")
```

In [7]:
```
null_values = data.isnull().sum()
data = data.drop_duplicates()
```

In [8]:
```
data['Order Date'] = pd.to_datetime(data['Order Date'])
data['Order Month'] = data['Order Date'].dt.month
most_ordered_month = data['Order Month'].value_counts().idxmax()
```

In [10]:
```
data['Order Day'] = data['Order Date'].dt.day_name()
most_ordered_day_of_week = data['Order Day'].value_counts().idxmax()
```

In [11]:
```
orders_trend = data['Order Date'].value_counts().sort_index()
```

In [12]:
```
most_ordered_month
```

Out[12]:
```
11
```

In [13]:
```
most_ordered_day_of_week
```

Out[13]:
```
'Monday'
```

In [14]:
```
orders_trend
```

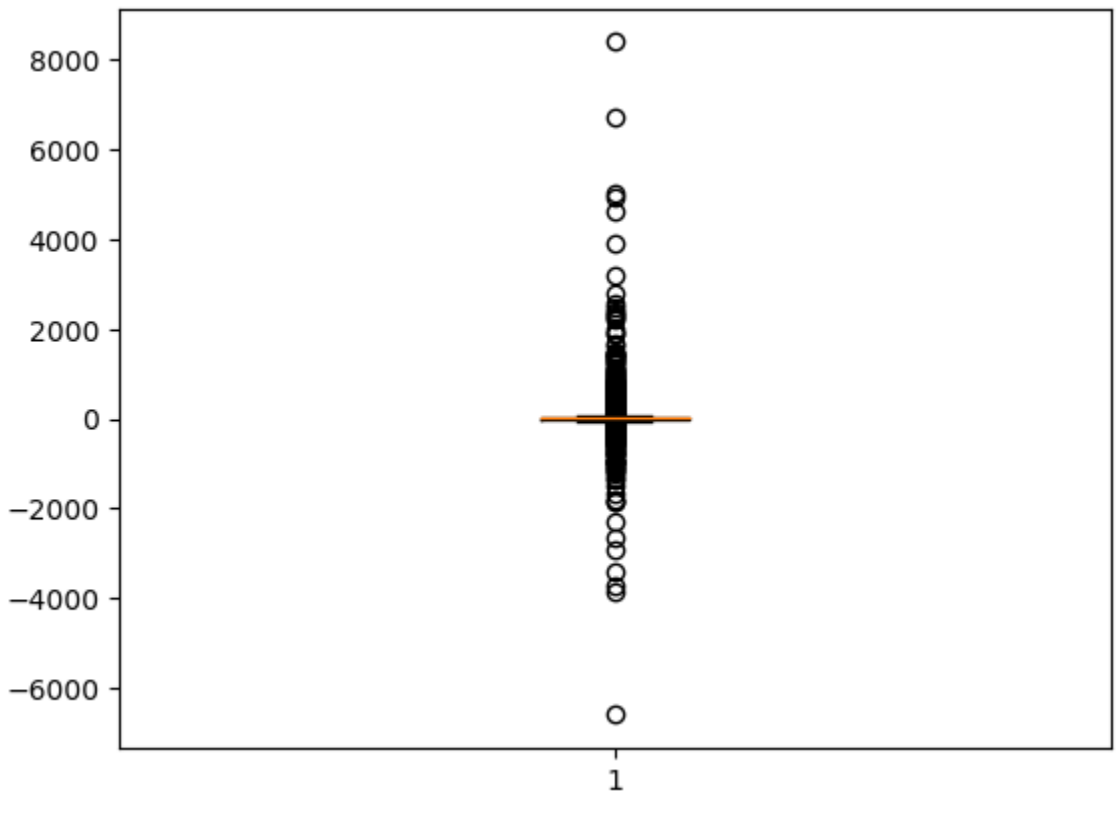
Out[14]:
```
2014-01-03     1
2014-01-04     3
2014-01-05     1
2014-01-06     9
2014-01-07     2
              ..
2017-12-26     4
2017-12-27     2
2017-12-28    19
2017-12-29    12
2017-12-30     7
Name: Order Date, Length: 1237, dtype: int64
```

In [15]:
```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 9994 entries, 0 to 9993
Data columns (total 23 columns):
 #   Column         Non-Null Count  Dtype         
---  ------         --------------  -----         
 0   Row ID         9994 non-null   int64         
 1   Order ID       9994 non-null   object        
 2   Order Date     9994 non-null   datetime64[ns]
 3   Ship Date      9994 non-null   object        
 4   Ship Mode      9994 non-null   object        
 5   Customer ID    9994 non-null   object        
 6   Customer Name  9994 non-null   object        
 7   Segment        9994 non-null   object        
 8   Country        9994 non-null   object        
 9   City           9994 non-null   object        
 10  State          9994 non-null   object        
 11  Postal Code    9994 non-null   int64         
 12  Region         9994 non-null   object        
 13  Product ID     9994 non-null   object        
 14  Category       9994 non-null   object        
 15  Sub-Category   9994 non-null   object        
 16  Product Name   9994 non-null   object        
 17  Sales          9994 non-null   float64       
 18  Quantity       9994 non-null   int64         
 19  Discount       9994 non-null   float64       
 20  Profit         9994 non-null   float64       
 21  Order Month    9994 non-null   int64         
 22  Order Day      9994 non-null   object        
dtypes: datetime64[ns](1), float64(3), int64(4), object(15)
memory usage: 1.8+ MB
```

In [17]:
```
import matplotlib.pyplot as plt
plt.boxplot(data["Profit"])
```

Out[17]:
```
{'whiskers': [<matplotlib.lines.Line2D at 0x1ffd27af490>,
  <matplotlib.lines.Line2D at 0x1ffd27c0210>],
 'caps': [<matplotlib.lines.Line2D at 0x1ffd27c0d90>,
  <matplotlib.lines.Line2D at 0x1ffd27c1a90>],
 'boxes': [<matplotlib.lines.Line2D at 0x1ffd26e6b50>],
 'medians': [<matplotlib.lines.Line2D at 0x1ffd27c2690>],
 'fliers': [<matplotlib.lines.Line2D at 0x1ffd27c2bd0>],
 'means': []}
```



In [18]:
```
orders_trend = data['Order Date'].value_counts().sort_index()
```

In [20]:
```
data.to_csv('Cleaned_Superstore.csv')
```

In [ ]:
```

```