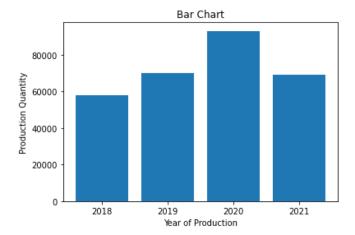
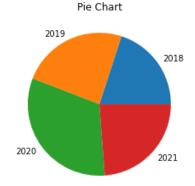
## 1. Take a data set in a data frame and plot the bar chart example may be year of Production and the Production Quantity. (Take help of Pandas)



## 2. Take a data set from the above data frame which you have prepared and plot the pie chart. (Take help of Pandas)



3. Take a csv file with name, employee id and salary. Read the datas of salary and plot the bar Chart with employee name on the x axis and employee salary on the y-axis. Just take 5 records in the csv files.

```
In [3]: import pandas as pd
import matplotlib.pyplot as plt

df1 = pd.read_csv(r'C:\Users\Nirmalya Majhi\Desktop\Advanced IT Workshop\mat-data.csv')

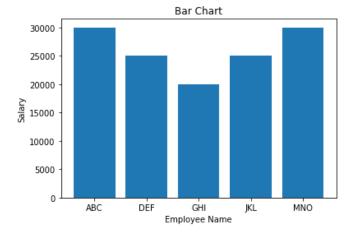
df1
```

## Out[3]: Name employee\_id salary 0 ABC 1 30000 1 DEF 2 25000 2 GHI 3 20000 3 JKL 4 25000

MNO

```
In [5]: x = df1['Name']
y = df1['salary']

plt.bar(x,y)
plt.xlabel("Employee Name")
plt.ylabel("Salary")
plt.title("Bar Chart")
plt.show()
```



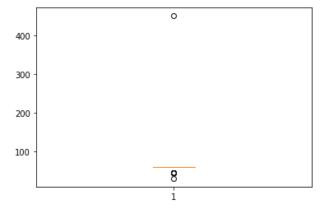
5 30000

4. Take the dirtydata.csv as an input and plot the box-plot for the column duration and find out How many outliers are there?

```
In [24]: import pandas as pd
    import matplotlib.pyplot as plt

df2 = pd.read_csv(r'C:\Users\Nirmalya Majhi\Desktop\Advanced IT Workshop\dirtydata.csv')

x = df2['Duration']
    plt.boxplot(x)
    plt.show()
```



from the above boxplot, we can say that there is one outlier

5. What do you mean by multiple boxplots? Take a data set in a data frame and draw the multiple boxplots. Make a csv file with multiple parameters and then plot multiple box plots for each parameter.

In [ ]: