Group Number = 9 Assignment = 5

Aditya Babar (230) Janhavi Kawadkar (231) Rohan Agrawal (236)

```
In [3]: import pandas as pd
           df = pd.read_csv("titanic.csv")
                   Age Cabin Embarked Fare S 7.2500
                                                  Fare \
                         NaN
C85
                  22.0
                                      S 7.9250
S 53.1000
S 8.0500
                 26.0 NaN
                 35.0 NaN
                                      S 8.0500
S 13.0000
S 30.0000
S 23.4500
C 30.0000
Q 7.7500
                19.0 B42
22.0 NaN
26.0 C148
           887
           889
                                                                                Name Parch PassengerId \
                                                     Braund, Mr. Owen Harris
                 Cumings, Mrs. John Bradley (Florence Briggs Th...
Heikkinen, Miss. Laina
Futrelle, Mrs. Jacques Heath (Lily May Peel)
                                                    Allen, Mr. William Henry
                                                                                                            887
           886
                                                        Montvila, Rev. Juozas
           887
888
                             Graham, Miss. Margaret Edith
Johnston, Miss. Catherine Helen "Carrie"
                                                        Behr, Mr. Karl Howell
Dooley, Mr. Patrick
           889
                                                                   Ticket Title Family_Size
A/5 21171 Mr 1
                                 Sex SibSp Survived
                        3 male 1
```

```
In (2): import matpletlib.pyplot as plt

# Sample data
x = df('Ape')
y = df('Tare')

# Create a bar plot
plt.bar(x, y)

# Customize the plot
plt.xitale('Ape and Fare')
plt.xiabel('Age')
plt.ylabel('Age')
# Display the plot
plt.show()

Age and Fare

500

Age and Fare
```

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

# Sample data
x = dfl "Age" |
y = dfl "Tamly Size" |

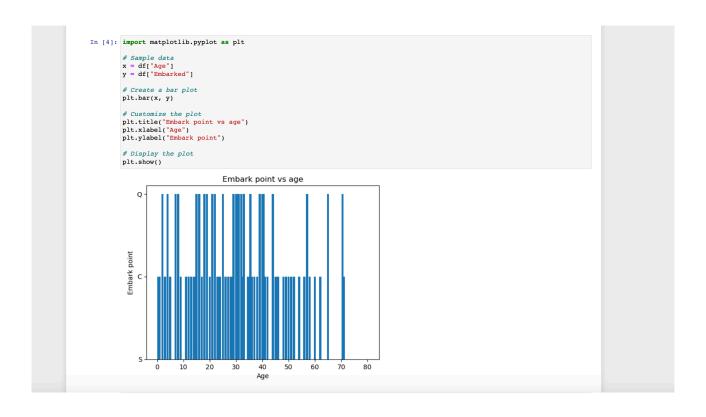
# Create a bar plot
plt.that(x, y)

# Customize the plot
plt.title('Age and family size")
plt.vlabe('Age')
plt.vlabe('Creanly Size')

# Display the plot
plt.show()

Age and family size

Age and family size
```



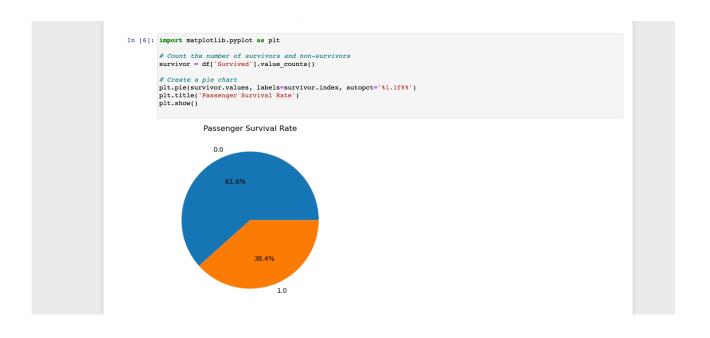
```
In [5]:

# Count the number of passengers in each class
passenger_counts = df['Pclass'].value_counts()

# Create a bar chart
plt.har(passenger_counts.index, passenger_counts.values)
plt.vlabel('Nassenger_Class')
plt.vlabel('Number of Passenger's)
plt.vlabel('No of passenger and Class')
plt.ahow()

No of passenger and Class

No of passenger and Class
```



```
In [9]: import pandas as pd
   import matplotlib.pyplot as plt

df = pd.read_csv("titanic.csv")

class_counts = df['Pclass'].value_counts()

plt.pie(class_counts, labels=class_counts.index, autopct='%1.1f%%')
plt.title('Passenger Class Distribution')
plt.show()
```

Passenger Class Distribution

