In [ ]:
```
# Anushray Pingale
# PHN TASK-2 for programming Language.
```

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

In [2]:
```
df = pd.read_csv('tested.csv')
```

In [3]:
```
print(df)
```

```
     PassengerId  Survived  Pclass  \
0            892         0  3
1            893         1       3
2            894         0       2
3            895         0       3
4            896         1       3

413         1305         0       3
414         1306         1       1
415         1307         0       3
416         1308         0       3
417         1309         0       3

                                          Name     Sex   Age  S1bSp  Parch  \
0                              Kelly, Mr.James    male  34.5      0      0
1              Wilkes, Mrs. James (Ellen Needs)  female  47.0      1      0
2                     Myles, Mr. Thomas Francis    male  62.0      0      0
3                              Wirz, Mr. Albert    male  27.0      0      0
4    Hirvonen, Mrs. Alexander (Helga E Lindqvist)  female  22.0      1      1

413                            Spector, Mr. Woolf    male   NaN      0      0
414                Oliva y Ocana, Dona. Fermina  female  39.0      0      0
415                Saether, Mr. Simon Sivertsen    male  38.5      0      0
416                         Ware, Mr. Frederick    male   NaN      0      0
417                    Peter, Master. Michael J    male   NaN      1      1

                 Ticket       Fare  Cabin  Embarked
0                330911     7.8292    NaN         Q
1                363272     7.0000    NaN         S
2                240276     9.6875    NaN         Q
3                315154     8.6625    NaN         S
4               3101298    12.2875    NaN         S

413          A.S. 3236     8.0500    NaN         S
414           PC 17758   108.9000   C105         C
415  S0T0N/0.Q. 3101262     7.2500    NaN         S
416              359309     8.0500    NaN         S
417                2668    22.3583    NaN         C

[418 rows x 12 columns]
```

In [4]:
```
print(df.head())
```

```
   PassengerId  Survived  Pclass  \
0          892         0       3
1          893         1       3
2          894         0       2
3          895         0       3
4          896         1       3

                                          Name     Sex   Age  SibSp  Parch  \
0                              Kelly, Mr. James    male  34.5      0      0
1              Wilkes, Mrs. James (Ellen Needs)  female  47.0      1      0
2                     Myles, Mr. Thomas Francis    male  62.0      0      0
3                              Wirz, Mr. Albert    male  27.0      0      0
4  Hirvonen, Mrs. Alexander (Helga E Lindqvist)  female  22.0      1      1

    Ticket     Fare Cabin Embarked
0   330911   7.8292   NaN        Q
1   363272   7.0000   NaN        S
2   240276   9.6875   NaN        Q
3   315154   8.6625   NaN        S
4  3101298  12.2875   NaN        S
```

In [5]:
```
#Find out the names of passengers younger than 35 years.
```

In [6]:
```
young_passengers = df[df['Age'] < 35]
```

In [7]:
```
young_passenger_names = list(young_passengers['Name'])
```

In [8]:
```
for Name in young_passenger_names:
    print(Name)
```

```
Kelly, Mr. James
Wirz, Mr. Albert
Hirvonen, Mrs. Alexander (Helga E Lindqvist)
Svensson, Mr. Johan Cervin
Connolly, Miss. Kate
Caldwell, Mr. Albert Francis
Abrahim, Mrs. Joseph (Sophie Halaut Easu)
Davies, Mr. John Samuel
Snyder, Mrs. John Pillsbury (Nelle Stevenson)
del Carlo, Mrs. Sebastiano (Argenia Genovesi)
Assaf, Mr. Gerios
Ilmakangas, Miss. Ida Livija
Olsen, Master. Artur Karl
Williams, Mr. Richard Norris II
Ostby, Miss. Helene Ragnhild
Daher, Mr. Shedid
Jefferys, Mr. Clifford Thomas
Dean, Mrs. Bertram (Eva Georgetta Light)
Mock, Mr. Philipp Edmund
```

In [9]:
```
#Print the rows Iron index 18 to 25 and co Lunns 3 to 5
```

In [10]:
```
subset = df.iloc[10:26, 3:6]
```

In [11]:
```
print(subset)
```

```
                                                 Name     Sex   Age
10                                 Ilieff, Mr. Ylio    male   NaN
11                       Jones, Mr. Charles Cresson    male  46.0
12     Snyder, Mrs. John Pillsbury (Nelle Stevenson)  female  23.0
13                               Howard, Mr. Benjamin    male  63.0
14  Chaffee, Mrs. Herbert Fuller (Carrie Constance...  female  47.0
15     del Carlo, Mrs. Sebastiano (Argenia Genovesi) female  24.0
16                                 Keane, Mr. Daniel    male  35.0
17                                 Assaf, Mr. Gerios    male  21.0
18                      Ilmakangas, Miss. Ida Livija  female  27.0
19            Assaf Khalil, Mrs. Mariana (Miriam")"  female  45.0
20                           Rothschild, Mr. Martin    male  55.0
21                       Olsen, Master. Artur Karl    male   9.0
22             Flegenheim, Mrs. Alfred (Antoinette)  female   NaN
23                  Williams, Mr. Richard Norris II    male  21.0
24   Ryerson, Mrs. Arthur Larned (Emily Maria Borie)  female  48.0
25                           Robins, Mr. Alexander A    male  50.0
```

In [12]:
```
#Find out the s talk s ti cs aggregate of Age 8 Fare us ing the DataFnane. agg () method
```

In [13]:
```
subsetl = df[["Age", "Fare"]]
```

In [14]:
```
stats = subsetl.agg(["min", "max", "mean", "median"])
```

In [15]:
```
pn1nt (stats)
```

```
              Age        Fare
min       0.17000    0.000000
max      76.00000  512.329200
mean     30.27259   35.627188
median   27.00000   14.454200
```

In [16]:
```
#Find out the mean li chef fare pri ce fon each of the sex and cabin c L ass co/r b! nat i ons
```

In [17]:
```
grouped_data = df.groupby(["Sex", "Cabin"])["Fare"].mean()
```

In [18]:
```
print(grouped_data)
```

```
Sex     Cabin
female  All      27.7208
        A29      31.6792
        A34      81.8583
        B26      26.5500
        B36      61.9792

male    F        13.0000
        F E46     7.2292
        F E57     7.2292
        F G63     7.6500
        F2       13.0000
Name: Fare, Length: 85, dtype: float64
```