1. Import the necessary libraries (Matplotlib and Seaborn) and load the data from the provided CSV file into a Pandas DataFrame.

```
In [8]:  import pandas as pd
         import numpy as np
         import matplotlib.pyplot as plt
         import seaborn as sns
```

```
In [9]: df=pd.read_csv('padas_question.csv')
```

```
In [10]:  df
```

Out[10]:

|	Name	Gender	Age	Height (cm)	Weight (kg)	City
0	Alice	Female	25	165	58	New York
1	Bob	Male	30	180	80	Los Angeles
2	Charlie	Male	35	175	70	Chicago
3	Diana	Female	28	170	65	Miami
4	Eva	Female	27	175	60	New York
5	Frank	Male	40	190	85	Houston
6	Grace	Female	32	168	55	Chicago
7	Henry	Male	45	175	75	Los Angeles
8	Ivy	Female	26	172	63	Miami
9	Jack	Male	28	180	78	New York

2. Create a scatter plot using Matplotlib to visualize the relationship between height and weight in the dataset. Label the axes and give the plot a title.

```
In [11]:  plt.scatter(df['Weight (kg)'],df['Height (cm)'],c="blue")
          plt.ylabel('Height (cm)')
          plt.xlabel('Weight (kg)')
          plt.show()
```
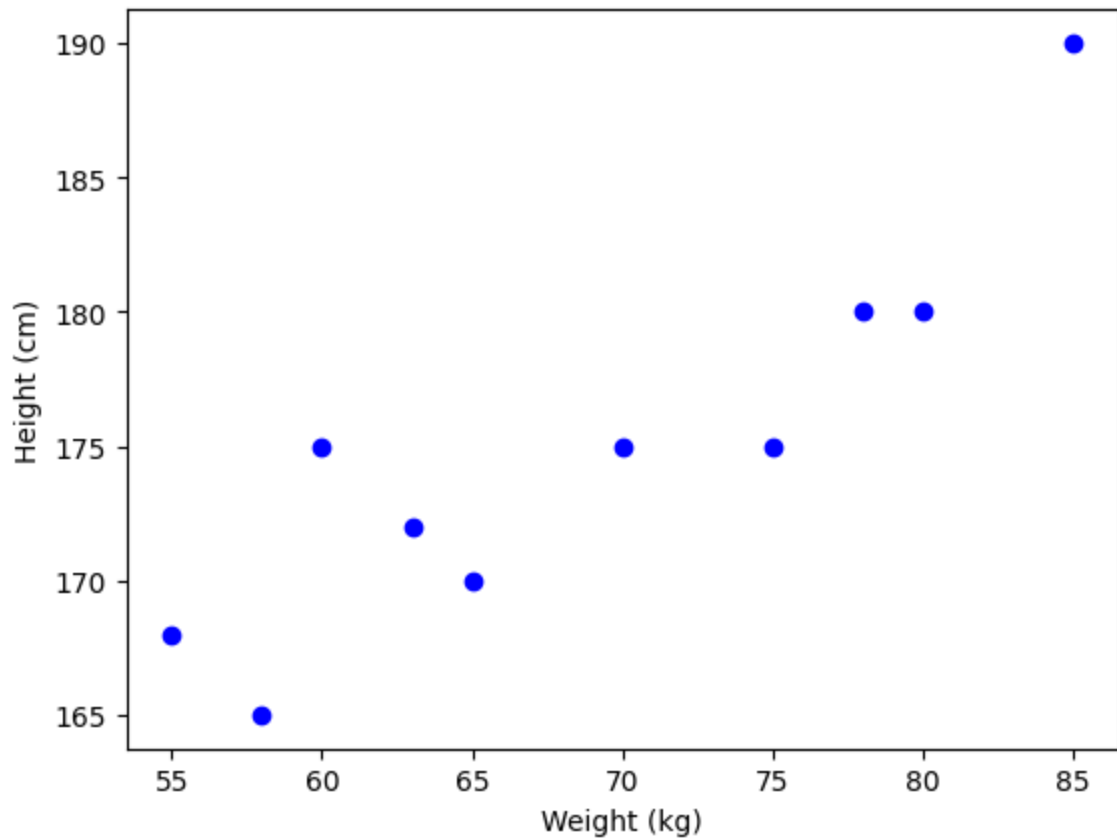
3. Create a histogram using Matplotlib to visualize the distribution of ages in the dataset. Label the axes and give the plot a title.

```
In [42]:  plt.hist(df['Age'],bins=None)
          plt.xlabel("X-axis")
          plt.ylabel("y-axis")
          plt.title('visualize the distribution of ages')
          plt.show()
```
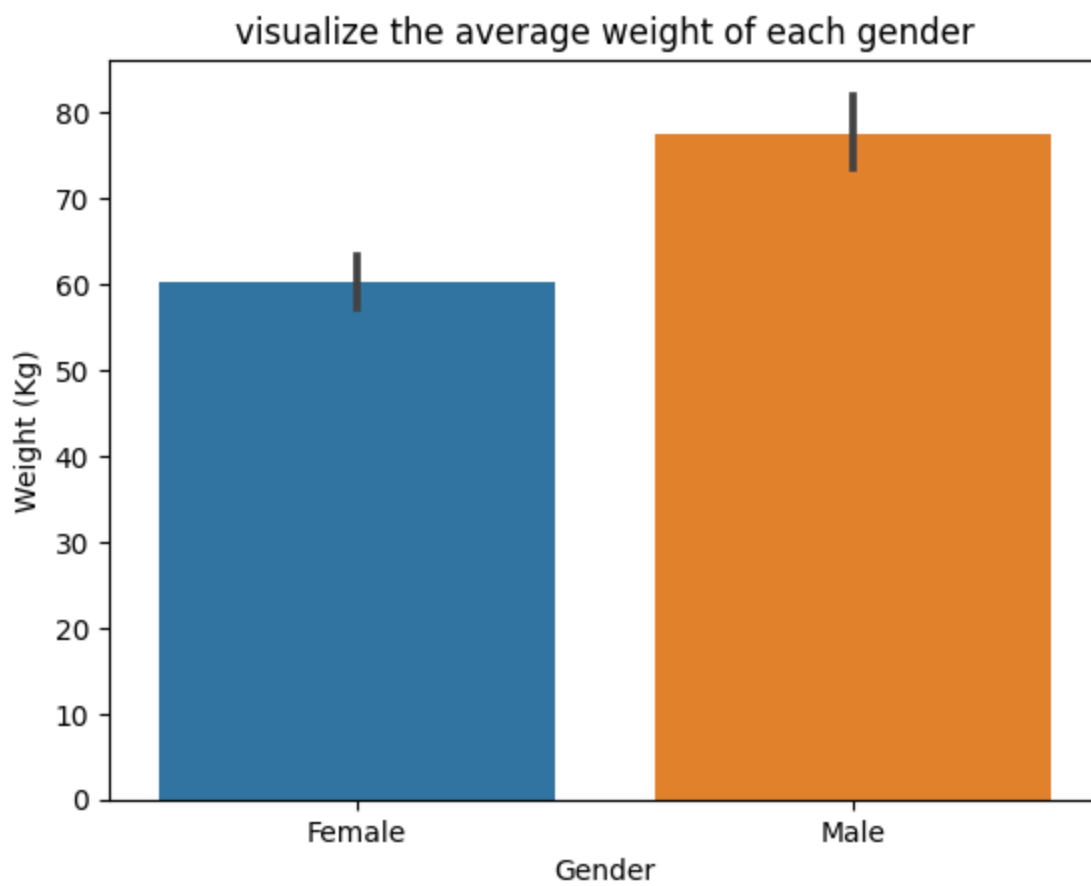
visualize the distribution of ages
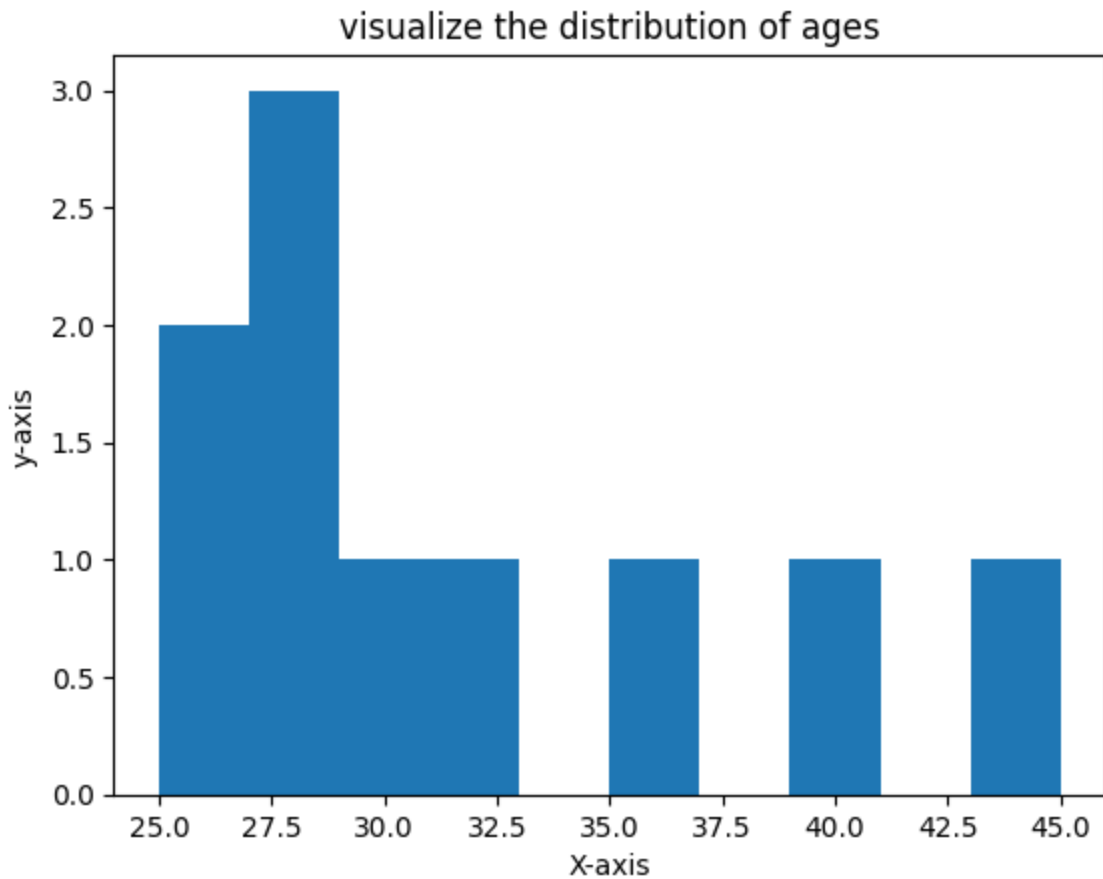
4. Create a box plot using Seaborn to visualize the distribution of heights in the dataset by gender. Label the axes and give the plot a title.

```
In [41]:  sns.boxplot(data = df,x='Gender',y='Height (cm)')
          plt.xlabel("Gender")
          plt.ylabel("Heights (cm)")
          plt.title('visualize the distribution of Height (cm)')
          plt.show()
```

visualize the distribution of Height (cm)
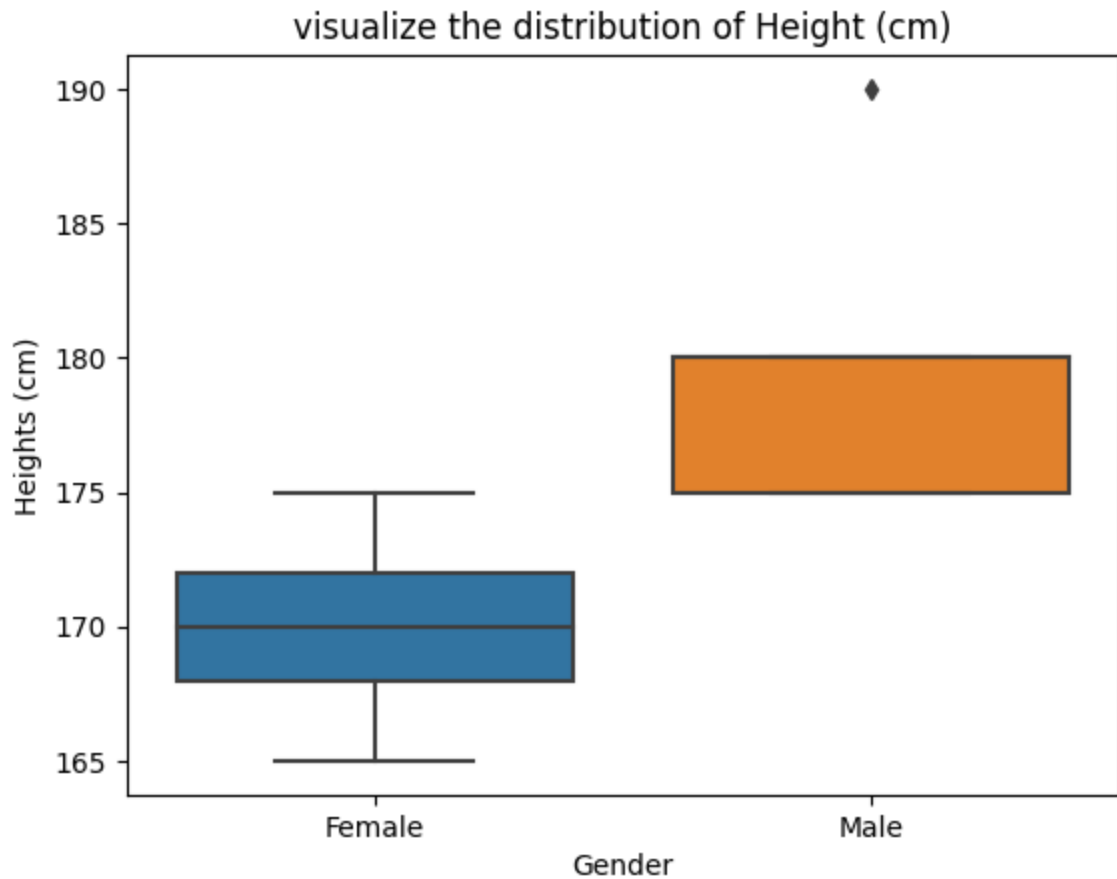
5. Create a bar chart using Seaborn to visualize the average weight of each gender in the dataset. Label the axes and give the plot a title

```
In [53]:   sns.barplot(data=df,x='Gender',y='Weight (kg)')
           plt.ylabel("Weight (Kg)")
           plt.xlabel("Gender")
           plt.title('visualize the average weight of each gender')
           plt.show()
```

visualize the average weight of each gender

In [ ]:

In [ ]: