Name:- Shashank Patokar
Roll no:- 449
PRN:- 202201090052

```
import pandas as pd
df = pd.read_csv('dataset2.csv')
```

```
import pandas as pd
df = pd.read_csv('dataset2.csv')
total_very_good_health = df[df['General_Health'] == 'Very
Good'].shape[0]
print('Total number of people with "Very Good" health: ',
total_very_good_health)
```

```
#output

Total number of people with "Very Good" health:  269
```

```
import pandas as pd
df = pd.read_csv('dataset2.csv')
cout_Females_Good_health = df[(df['General_Health'] == 'Very Good') &
(df['Sex'] == 'Female')].shape[0]
cout_male_Good_health = df[(df['General_Health'] == 'Very Good') &
(df['Sex'] == 'Male')].shape[0]
print("Total number of Female with Good
Health :-",cout_Females_Good_health)
print("Total number of male with Good
Health :-",cout_male_Good_health)
```

```
#output



Total number of Female with Good Health :- 188
Total number of male with Good Health :- 81
```

```
import pandas as pd
df = pd.read_csv('dataset2.csv')
diabetic_patients = df[df['Diabetes'] == 'Yes']
average_weight_diabetic = diabetic_patients['Weight_(kg)'].mean()
print("Average weight of patients with
diabetes:",average_weight_diabetic)
```

```
#output



Average weight of patients with diabetes: 87.29606557377048
```

```
import pandas as pd
df = pd.read_csv('dataset2.csv')
cout_female_patients_heart_problems = df[(df['Sex'] == 'Female') &
(df['Heart_Disease'] == 'Yes')].shape[0]
print("total number of female patients heart
problem :-",cout_female_patients_heart_problems)
```

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```
#output
```

```
total number of female patients heart problem :- 73
```

```
import matplotlib.pyplot as plt
weight = df['Weight_(kg)']
height = df['Height_(cm)']
plt.bar(height, weight)
plt.xlabel('Height (cm)')
plt.ylabel('Weight (kg)')
```

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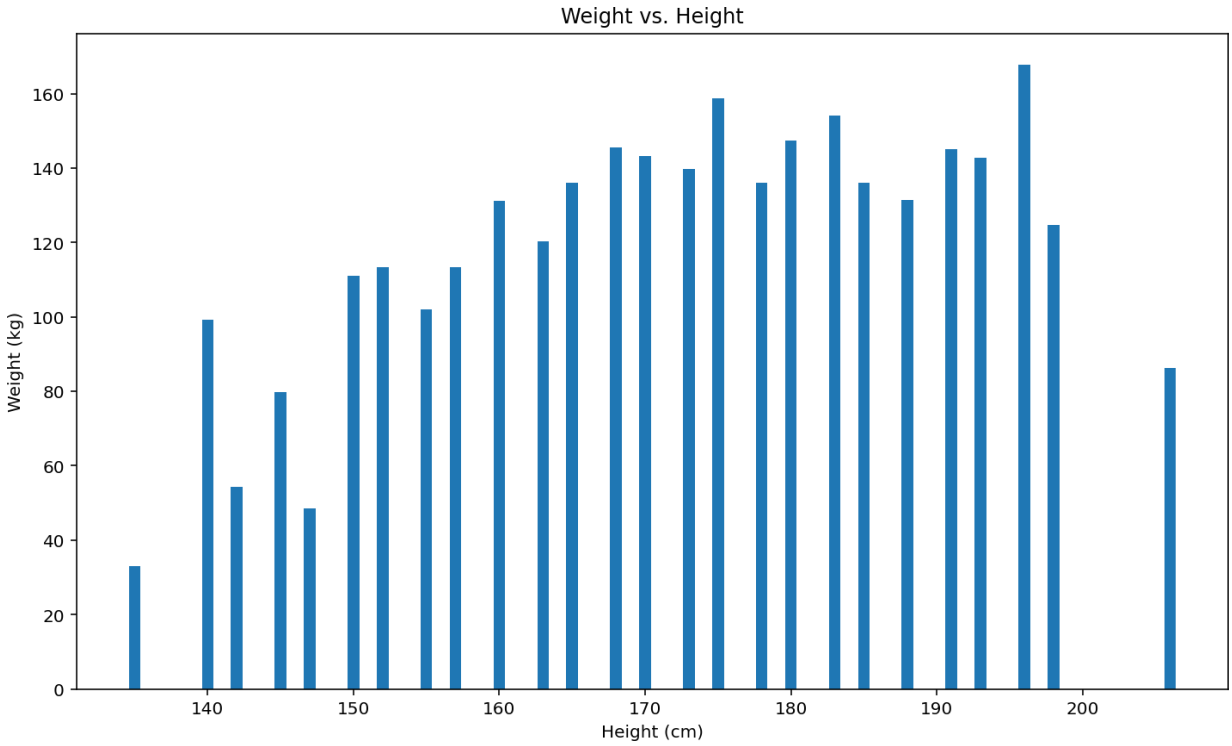
```
plt.title('Weight vs. Height')
plt.show()
```




```
gender_counts = df['Sex'].value_counts()
plt.bar(gender_counts.index, gender_counts.values)
plt.xlabel('Gender')
plt.ylabel('Count')
plt.title('Gender Distribution')
plt.show()
```

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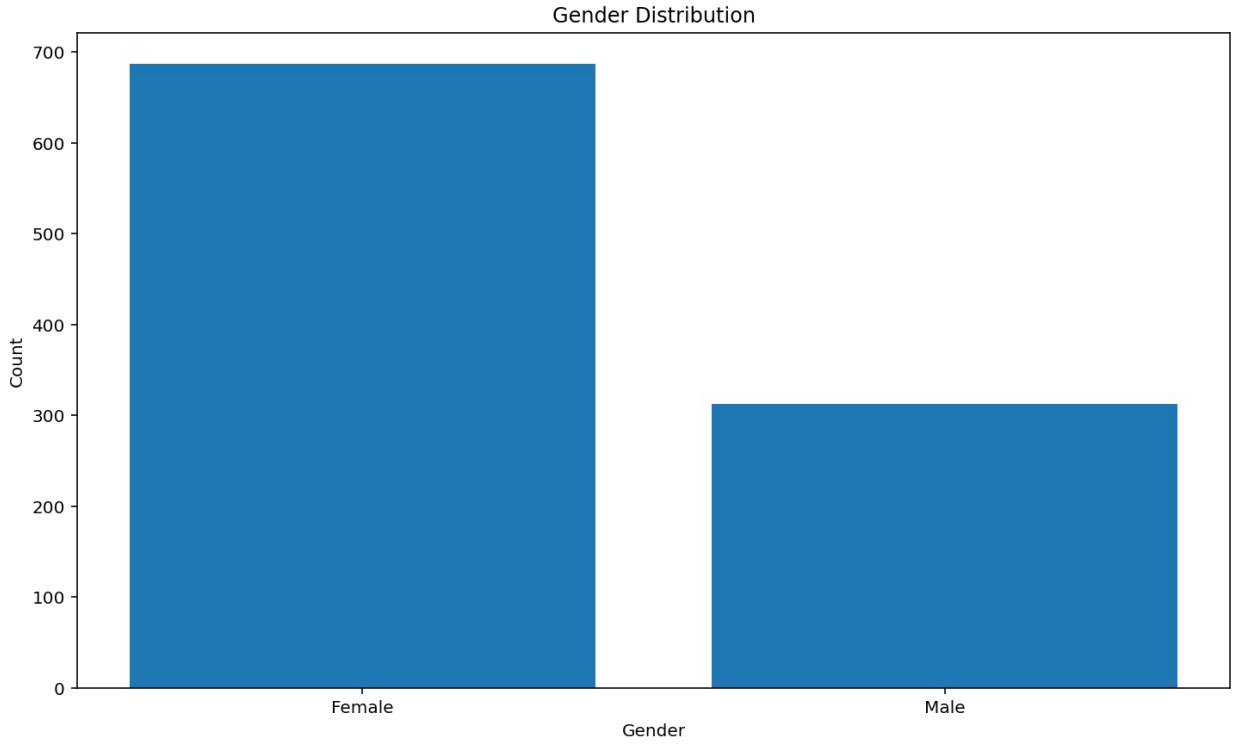


```
female_patients = df[df['Sex'] == 'Female']
heart_problems = female_patients[female_patients['Heart_Disease'] ==
'Yes'].shape[0]
no_heart_problems = female_patients[female_patients['Heart_Disease']
== 'No'].shape[0]
labels = ['Heart Problems','No Heart Problems']
sizes = [heart_problems, no_heart_problems]
colors = ['red', 'green']
plt.pie(sizes, labels=labels, colors=colors, autopct='%1.1f%%')
plt.title('presence of Heart Probles among Female Patients')
plt.show()
```

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