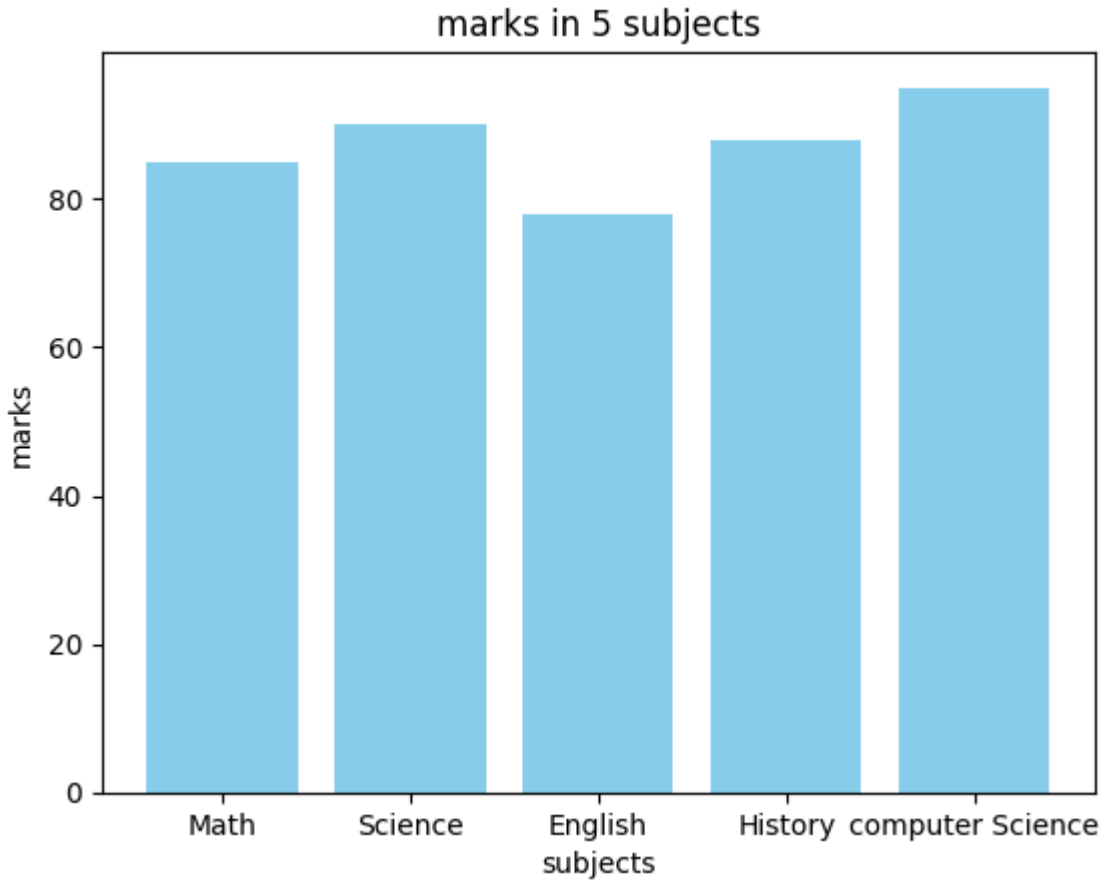
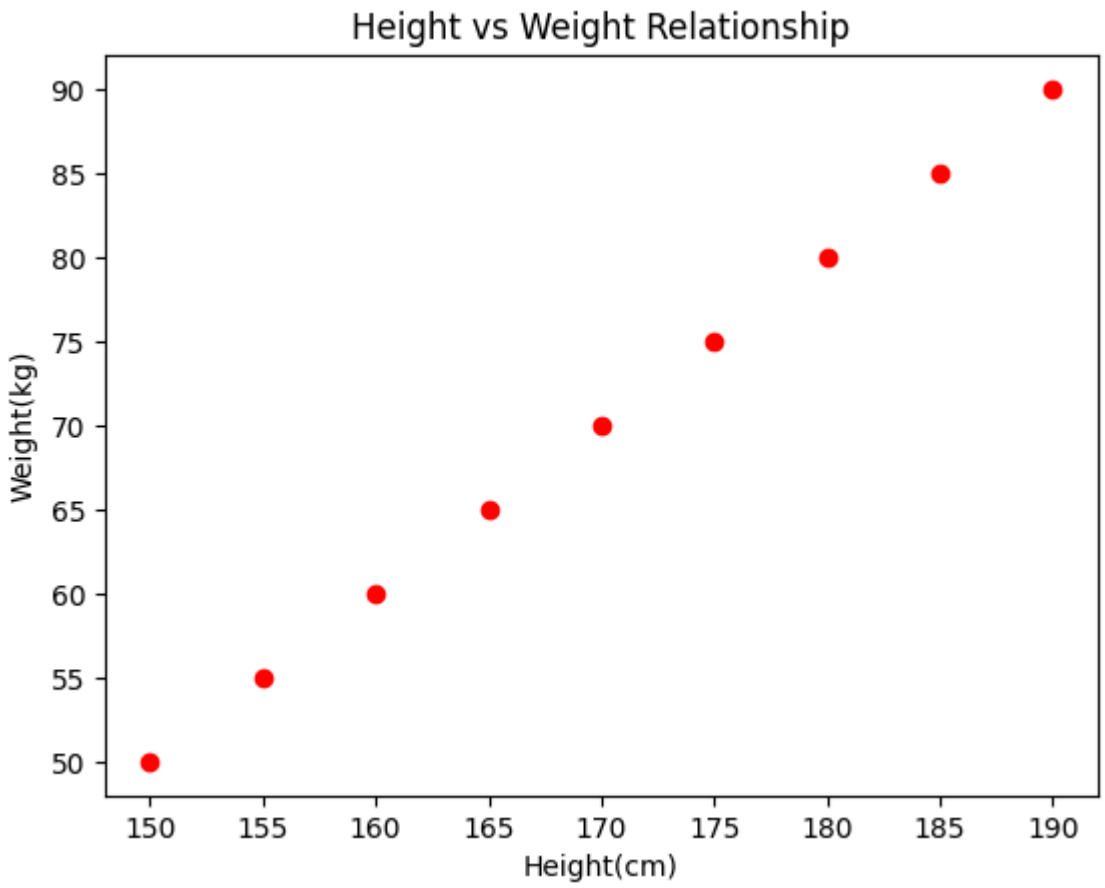
In [11]:
```
#2.Showing marks in 5 subjects

import matplotlib.pyplot as plt
subjects = [ "Math", "Science", "English", "History","computer Science"]
marks = [85,90,78,88,95]
plt.bar(subjects,marks,color='skyblue')
plt.title("marks in 5 subjects")
plt.xlabel("subjects")
plt.ylabel("marks")
```

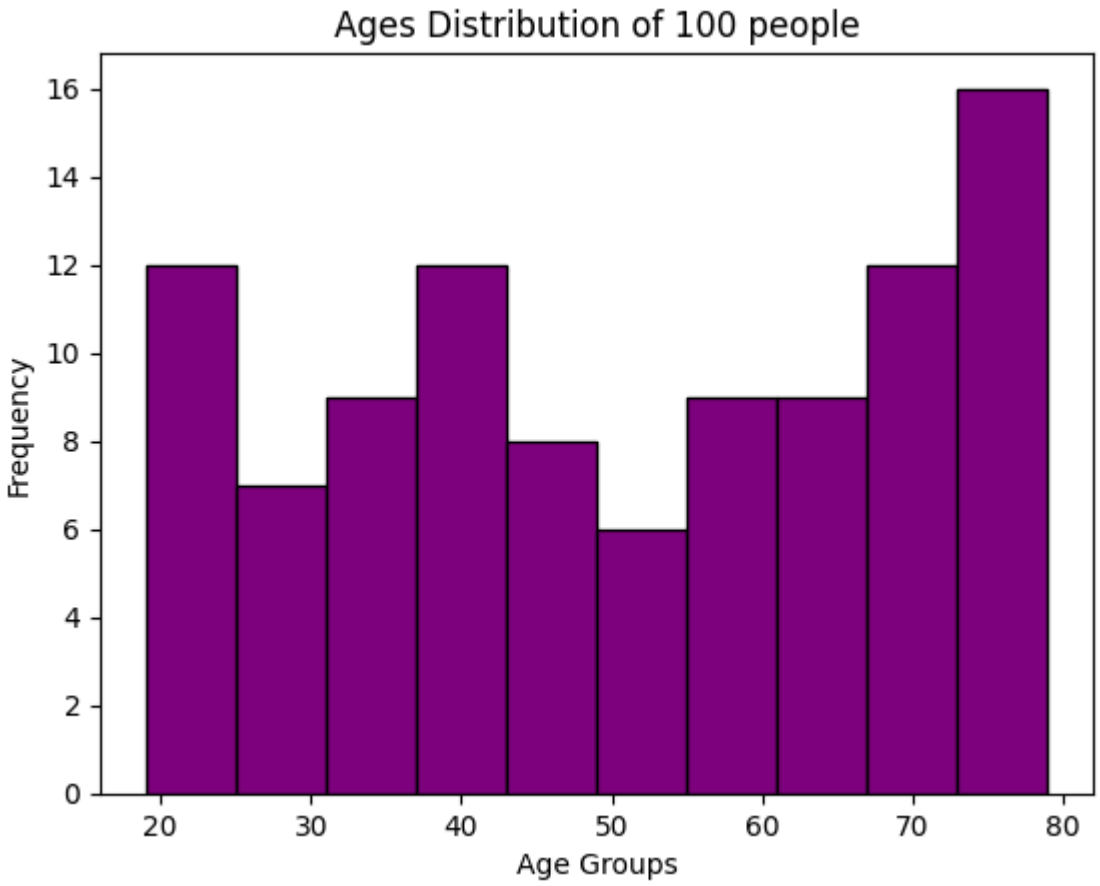
Out[11]: Text(0, 0.5, 'marks')



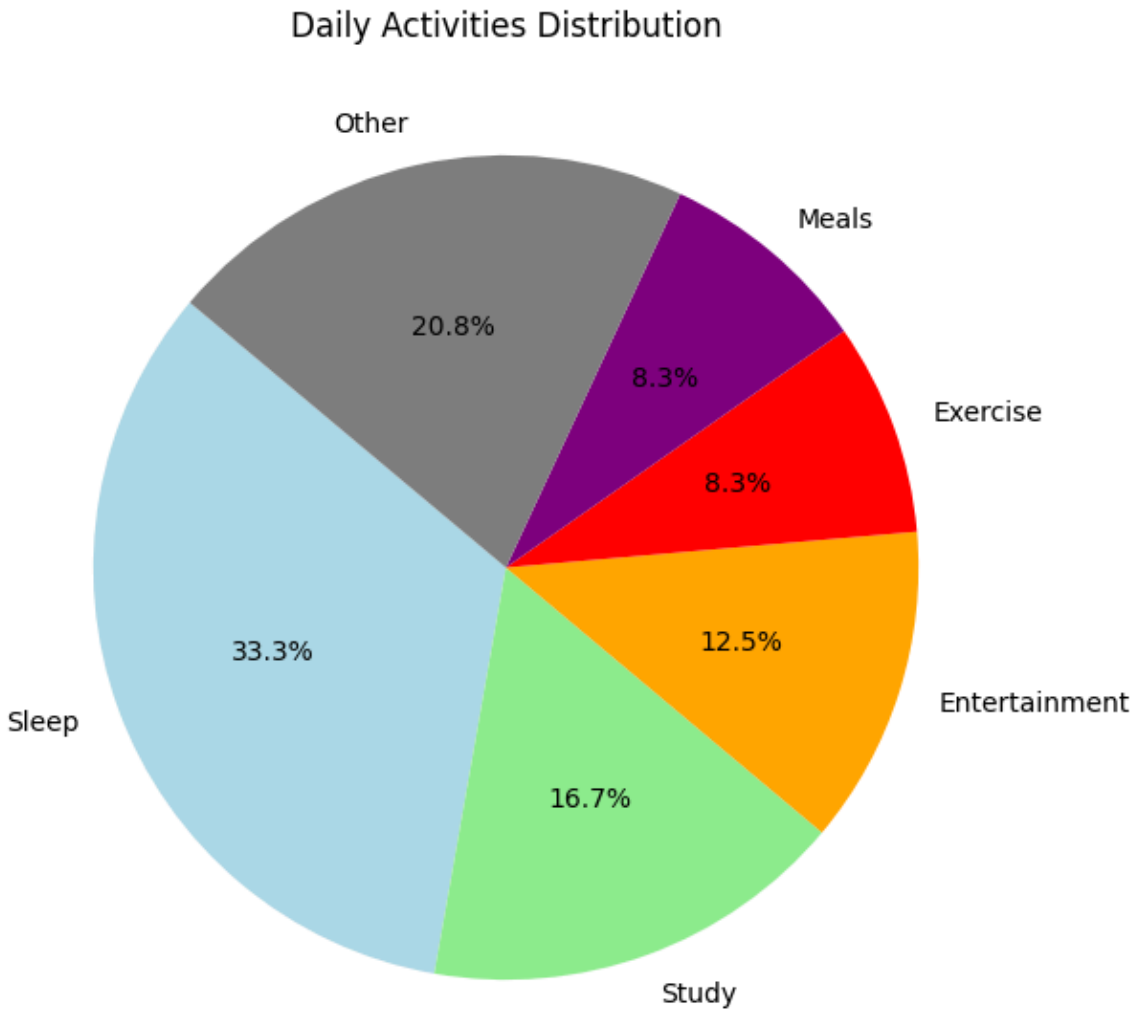
In [10]:
```
#3.Scatter plot to show relationship between height and weight

import matplotlib.pyplot as plt
heights = [150,155,160,165,170,175,180,185,190]
weights =[50,55,60,65,70,75,80,85,90]

plt.scatter(heights,weights,color='red',marker='o')

plt.title("Height vs Weight Relationship")
plt.xlabel("Height(cm)")
plt.ylabel("Weight(kg)")

plt.show()
```



In [15]:
```
#4.creating histogram for ages of 100 people.

import matplotlib.pyplot as plt
import numpy as np

np.random.seed(42)
ages = np.random.randint(18, 80, size=100)

plt.hist(ages, bins=10, color='purple', edgecolor='black')

plt.title("Ages Distribution of 100 people")
plt.xlabel("Age Groups")
plt.ylabel("Frequency")

plt.show()
```



In [19]:
```
#5.pie chart of daily activities

import matplotlib.pyplot as plt

activities = ["Sleep","Study","Entertainment","Exercise","Meals","Other"]
time_spent = [8,4,3,2,2,5]

plt.figure(figsize=(7,7))
plt.pie(time_spent,labels = activities, autopct = "%1.1f%%", startangle=140, col

plt.title("Daily Activities Distribution")

plt.show()
```


Daily Activities Distribution
Other
Meals
Exercise
Entertainment
Study
Sleep
20.8%
8.3%
8.3%
12.5%
16.7%
33.3%

In [ ]: