barplot

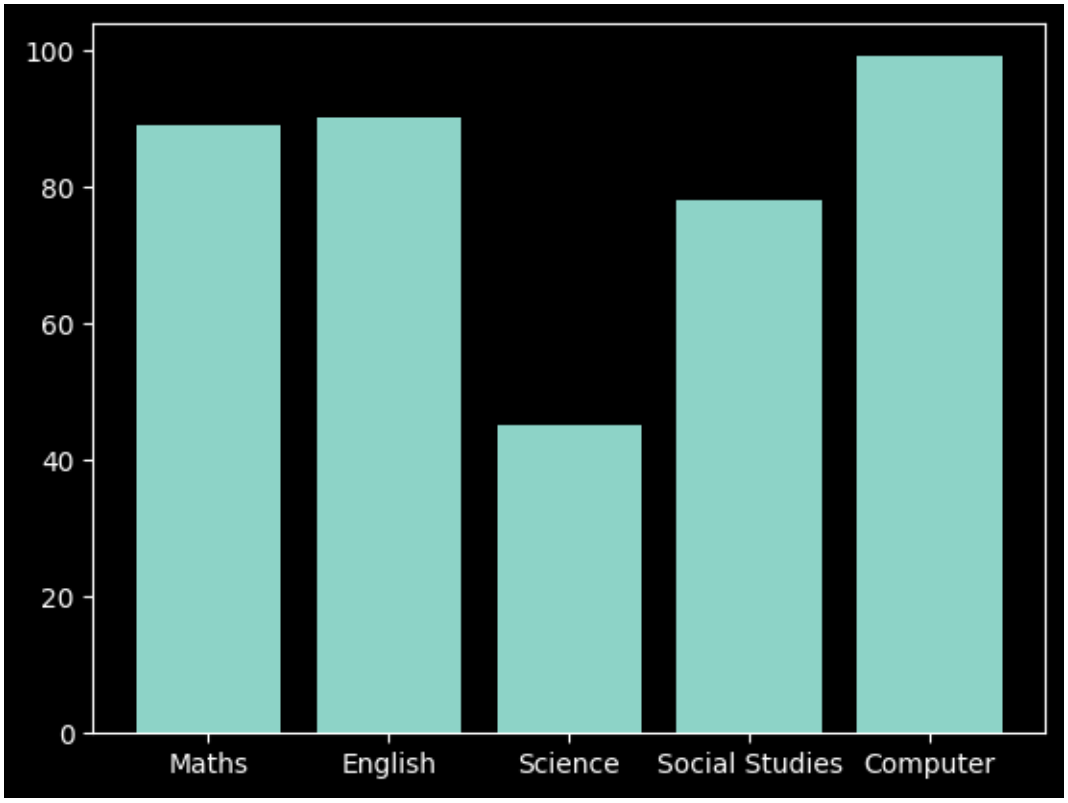
March 20, 2025

[1]:
```
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
```

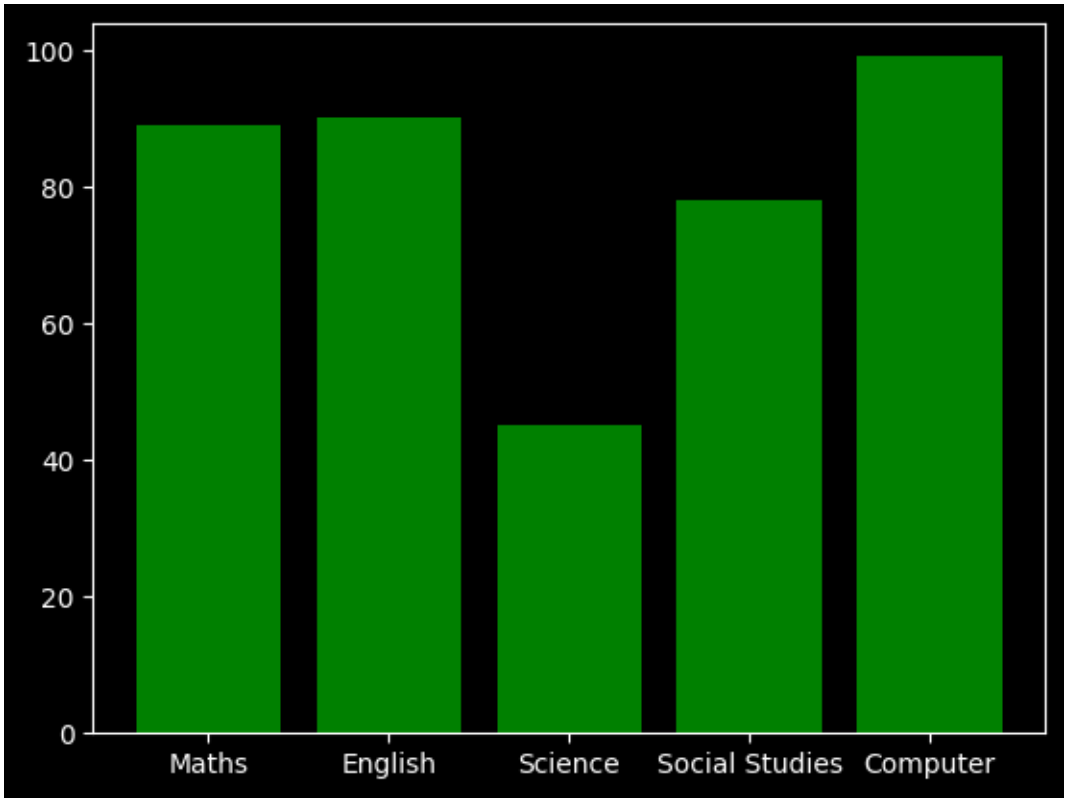
[5]:
```
plt.style.use('dark_background')
```

[6]:
```
subjects = ['Maths','English','Science','Social Studies','Computer']
marks = [89,90,45,78,99]
```

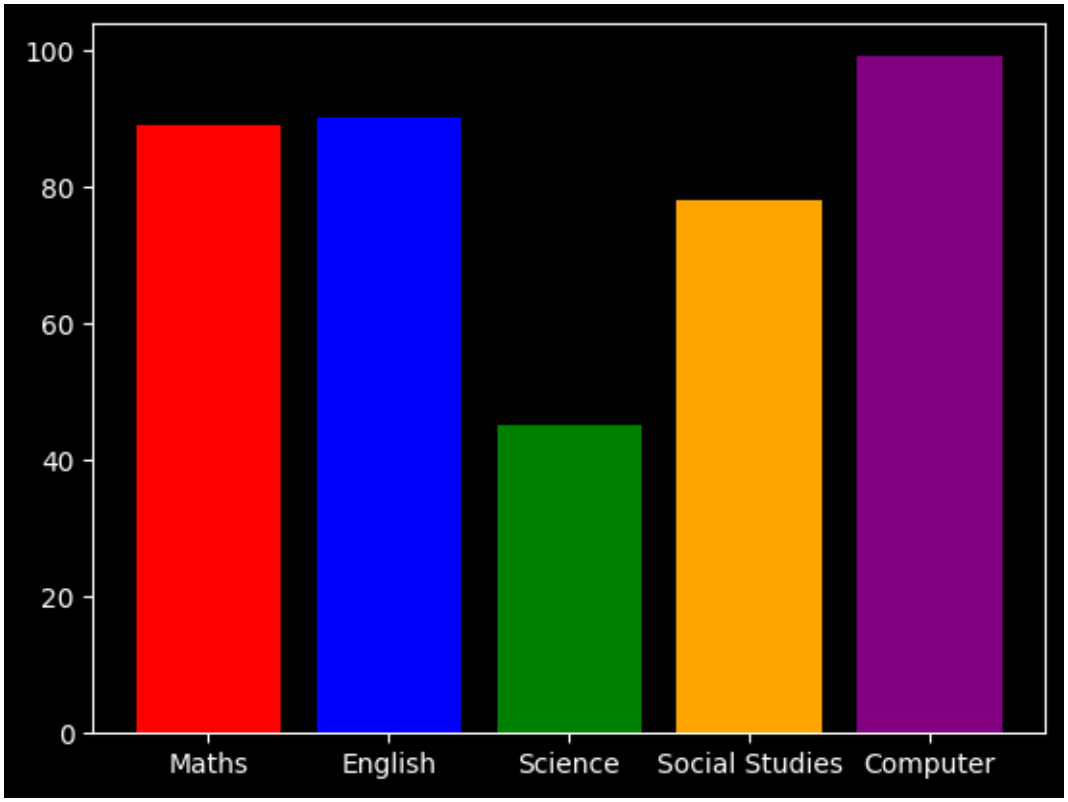
[7]:
```
plt.bar(subjects,marks)
plt.show()
```



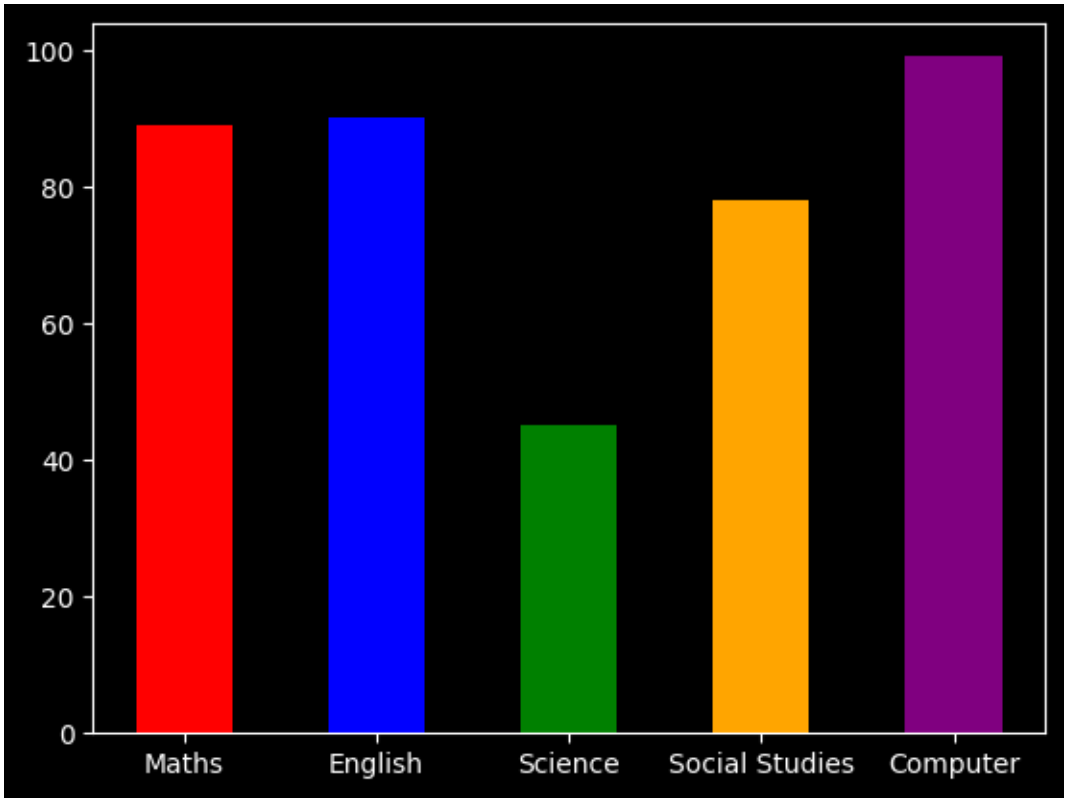
[8]:
```
plt.bar(subjects,marks,color = 'green')
plt.show()
```



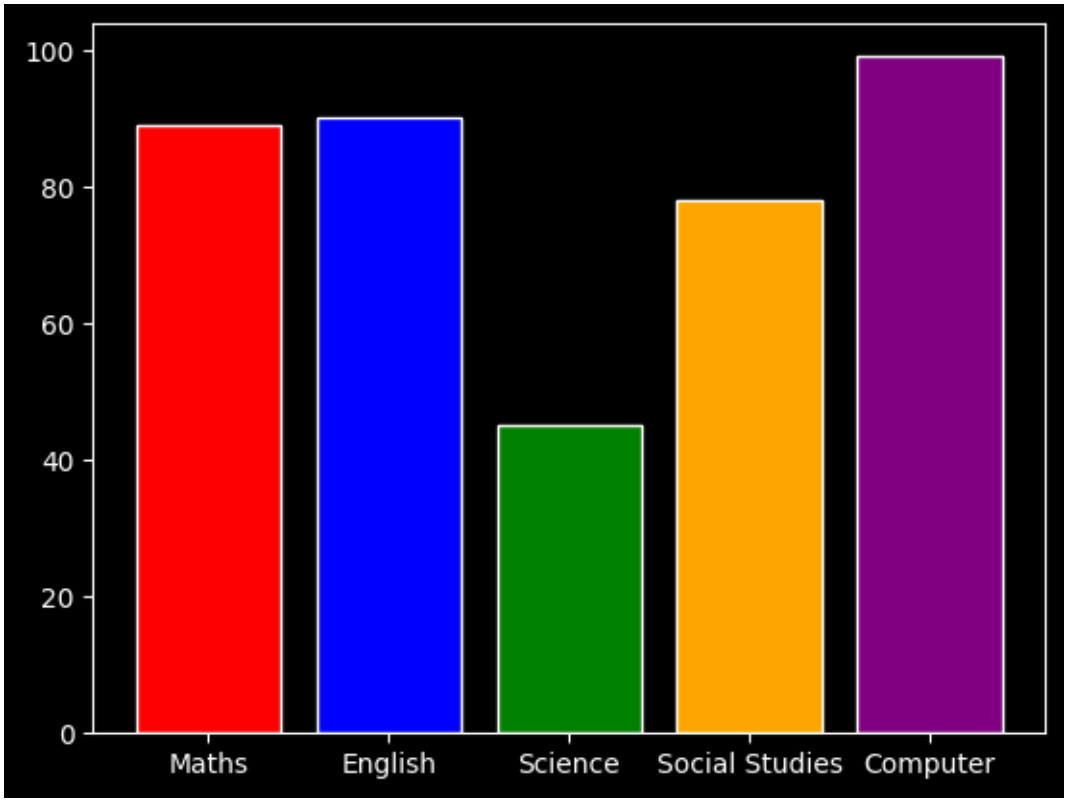
[9]:
```
colors = ['red','blue','green','orange','purple']
plt.bar(subjects,marks,color = colors)
plt.show()
```



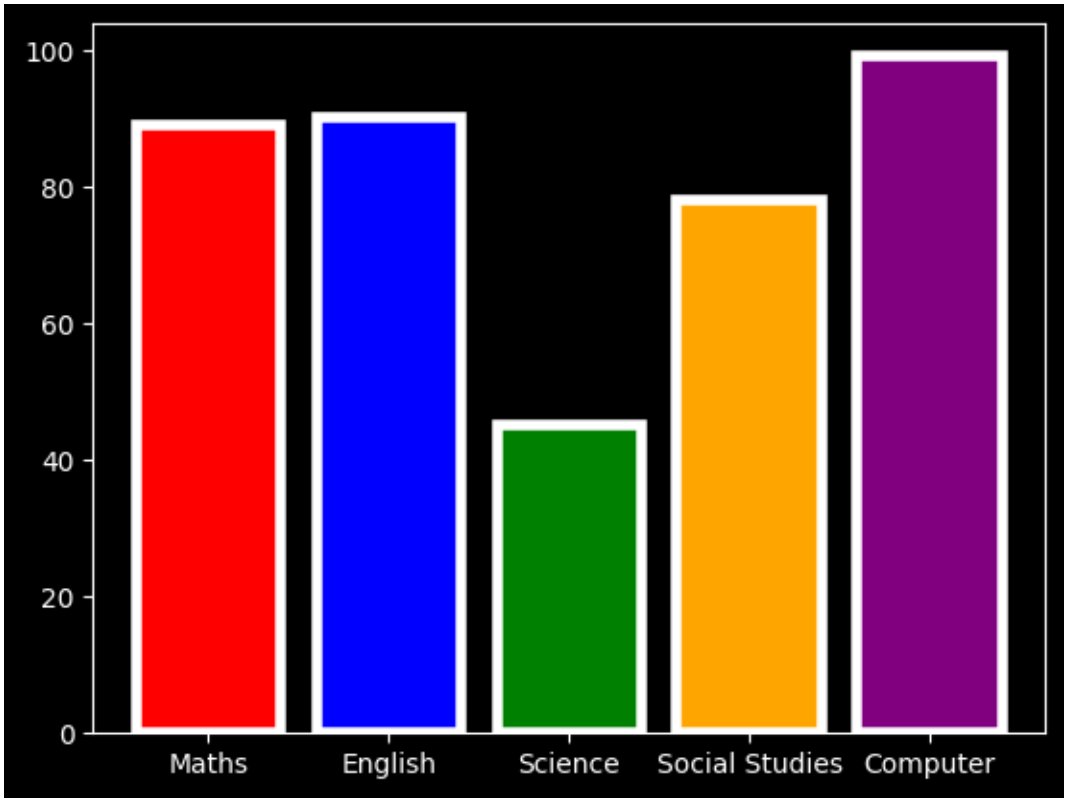
[10]:
```
plt.bar(subjects,marks,color = colors,width = 0.5)
plt.show()
```



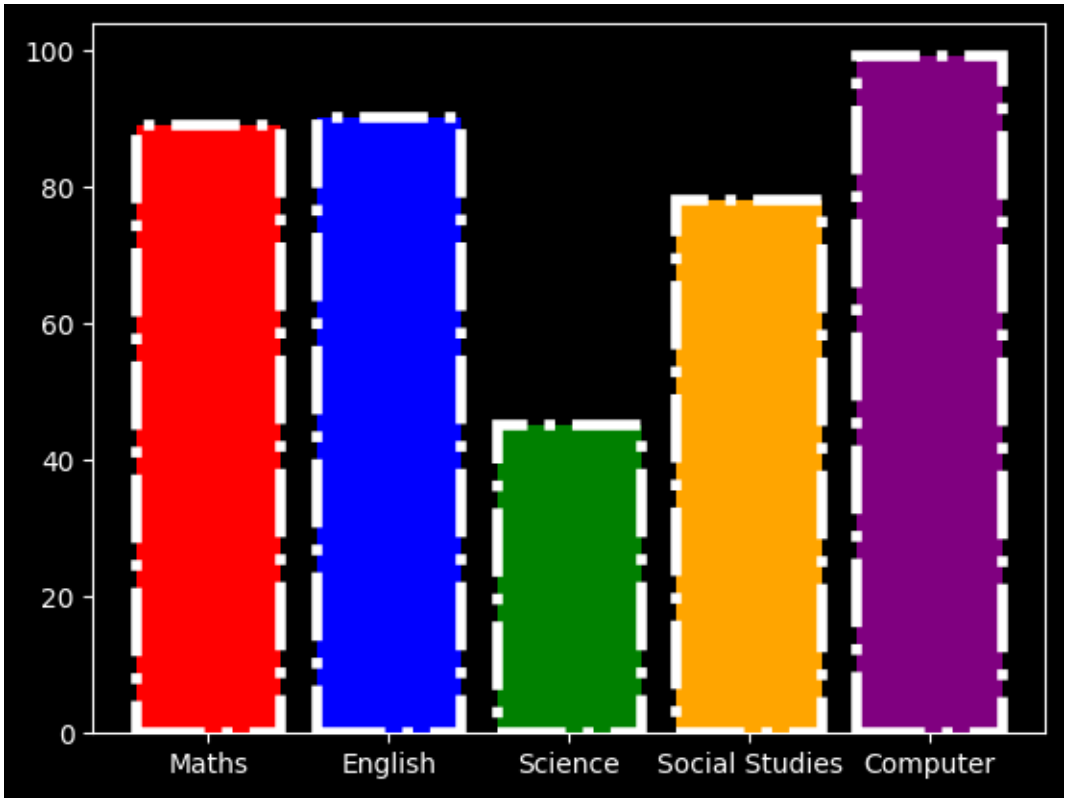
[11]:
```
plt.bar(subjects,marks,color = colors,edgecolor = 'white')
plt.show()
```



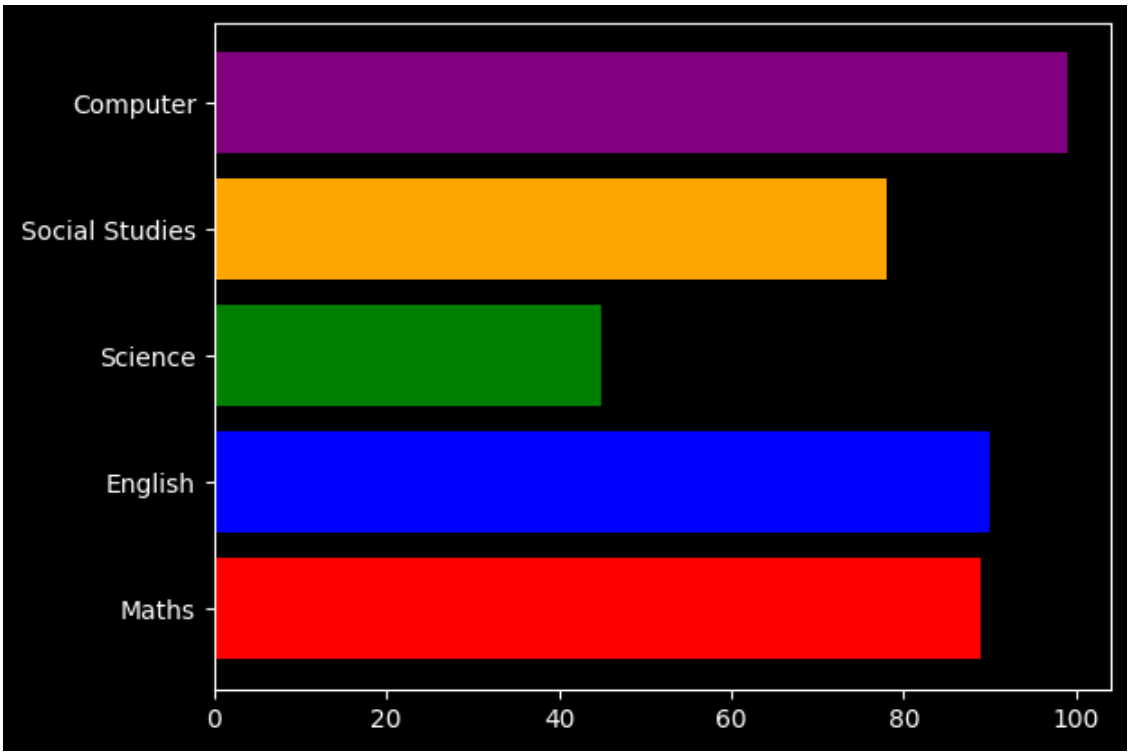
[12]:
```
plt.bar(subjects,marks,color = colors,edgecolor = 'white',linewidth = 4)
plt.show()
```



[13]:
```
plt.bar(subjects,marks,color = colors,edgecolor = 'white',linewidth =␣
↪4,linestyle = '-.')
plt.show()
```

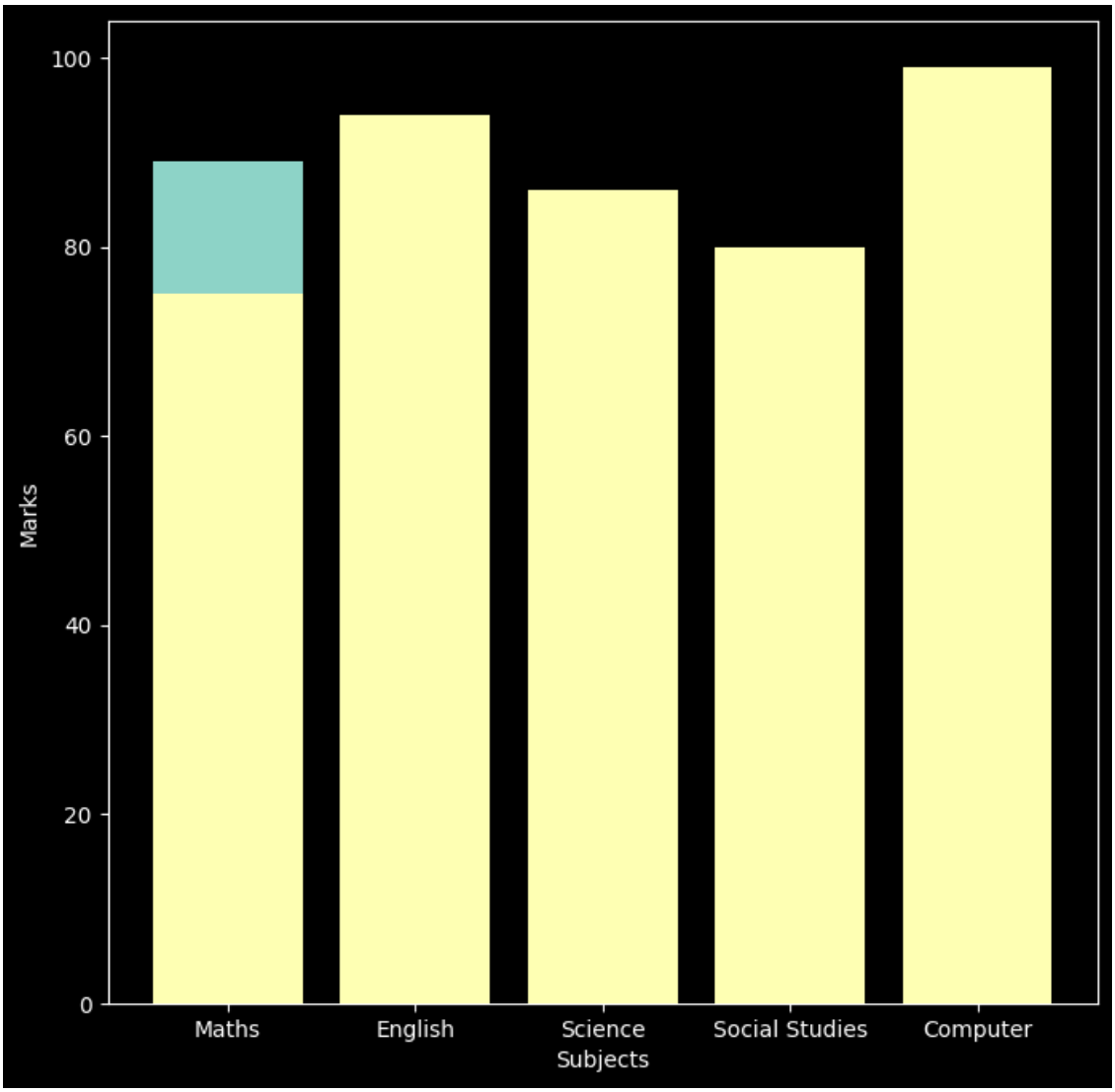


[14]:
```
plt.barh(subjects,marks,color = colors)
plt.show()
```



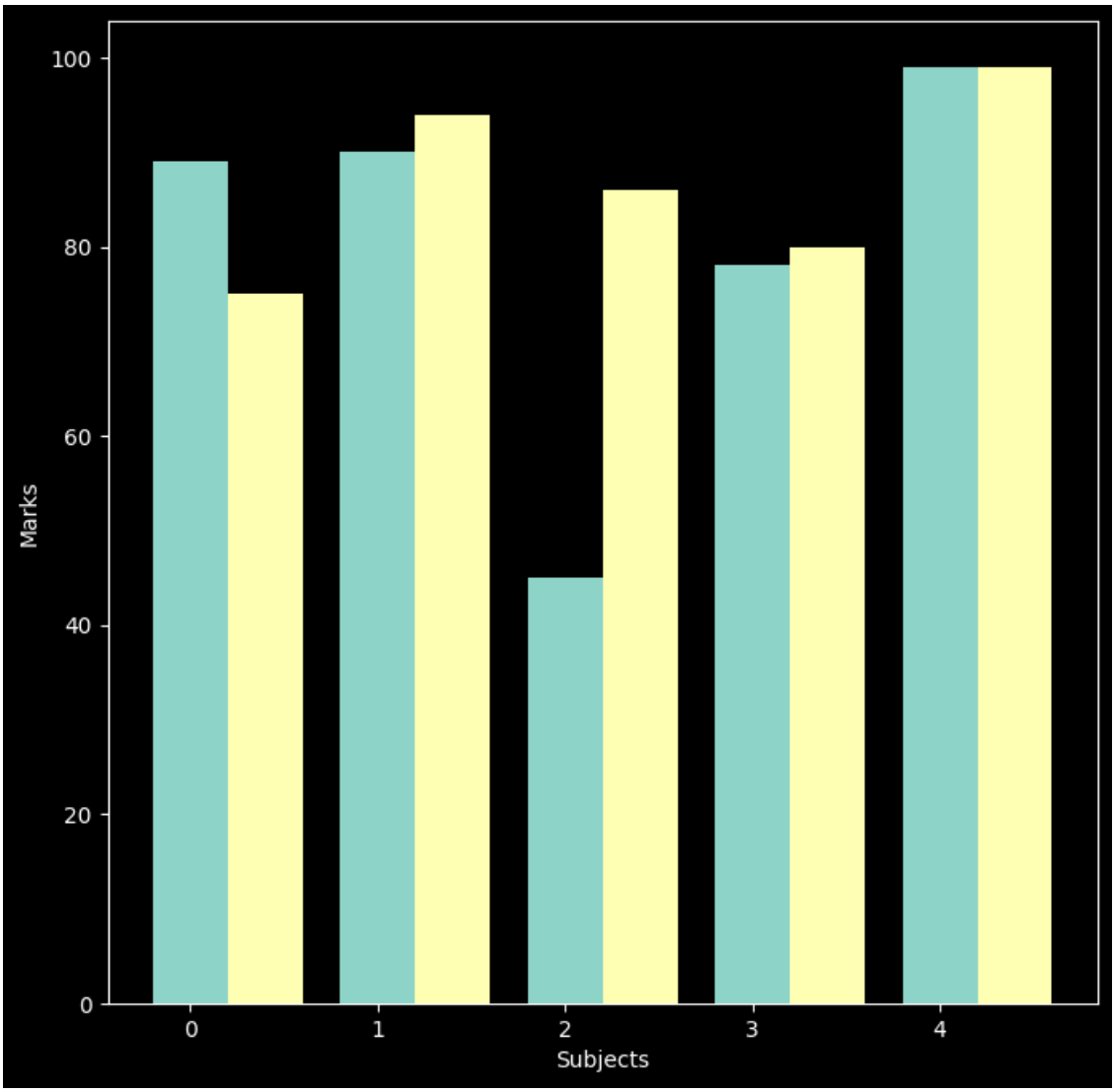
[15]:
```
subjects = ['Maths','English','Science','Social Studies','Computer']
marks1 = [89,90,45,78,99]
marks2 = [75,94,86,80,99]
```

[18]:
```
plt.figure(figsize = (8,8))
plt.bar(subjects,marks1)
plt.bar(subjects,marks2)
plt.xlabel('Subjects')
plt.ylabel('Marks')
plt.show()
```

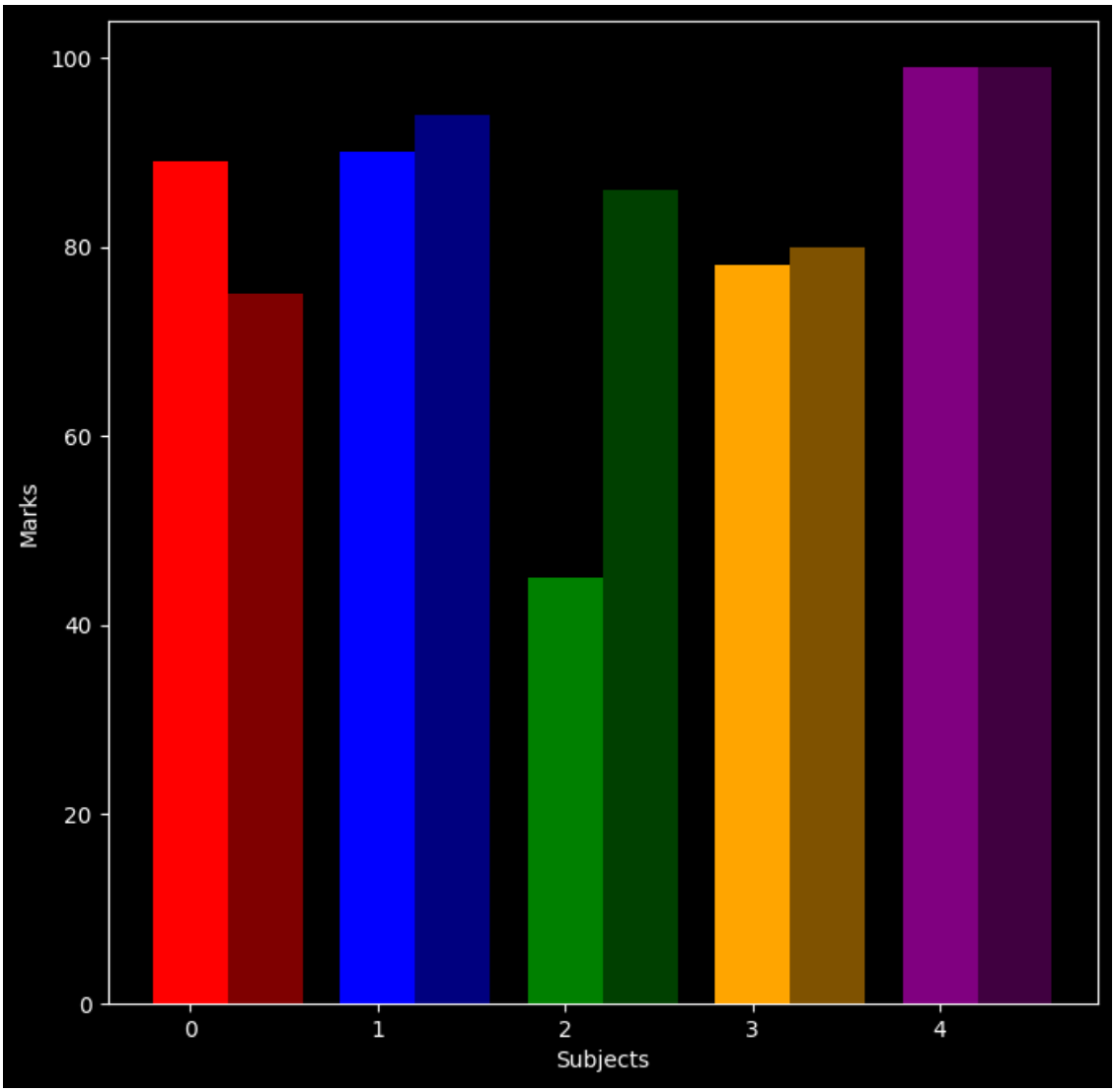


[19]:
```
subject_len = np.arange(len(subjects))
width = 0.4
```

[20]:
```
plt.figure(figsize = (8,8))
plt.bar(subject_len,marks1,width = width)
plt.bar(subject_len+width ,marks2,width = width)
plt.xlabel('Subjects')
plt.ylabel('Marks')
plt.show()
```



[21]:
```
plt.figure(figsize = (8,8))
plt.bar(subject_len,marks1,width = width,color = colors)
plt.bar(subject_len+width ,marks2,width = width,color = colors,alpha = 0.5)
plt.xlabel('Subjects')
plt.ylabel('Marks')
plt.show()
```


100
80
60
40
20
0
Marks
0
1
2
3
4
Subjects

[ ]: