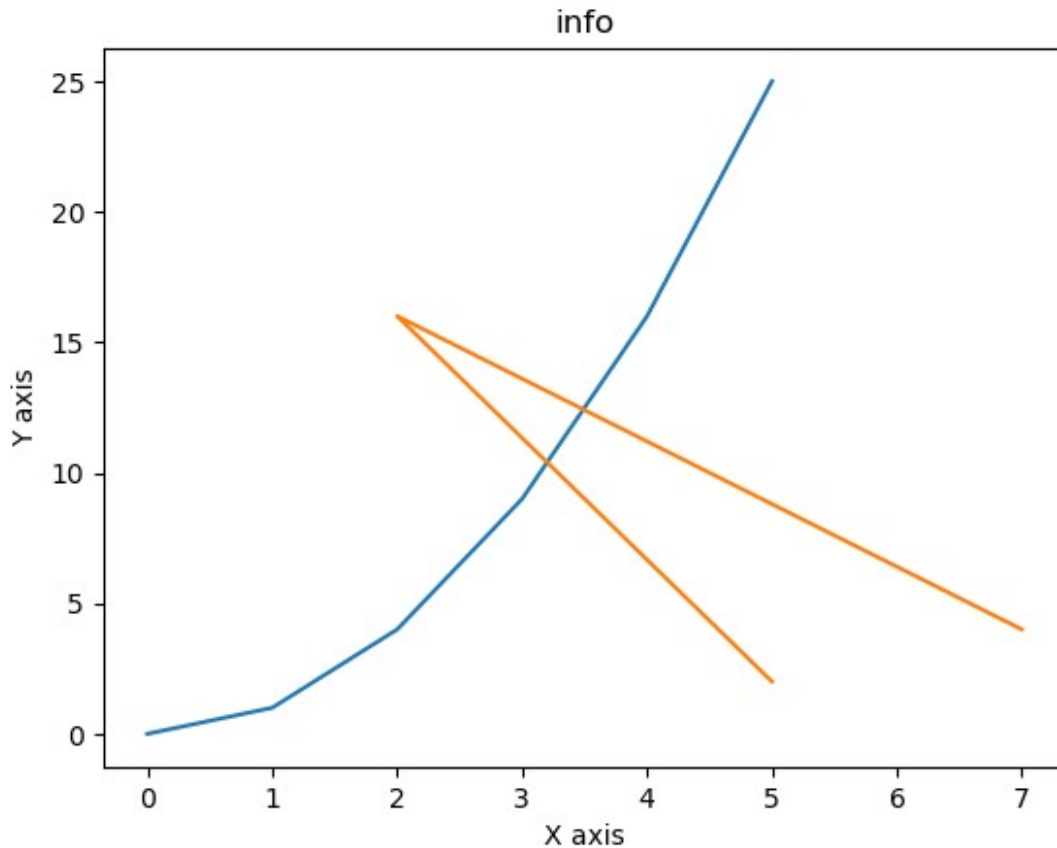


```
import matplotlib.pyplot as plt
```

```
x_values=[0,1,2,3,4,5]  
squares=[0,1,4,9,16,25]
```

```
plt.plot(x_values,squares)  
plt.savefig("testimage.jpg")
```

```
x=[5,2,7]  
y=[2,16,4]  
plt.plot(x,y)  
plt.title('info')  
plt.ylabel('Y axis')  
plt.xlabel('X axis')  
plt.show()
```



```
x=[1,2,3,4,5]  
y=[50,40,70,80,20]  
y2=[80,20,20,50,60]  
y3=[70,20,60,40,60]  
y4=[80,20,20,50,60]
```

```
plt.plot(x,y,'g',label='enfield',linewidth=5)  
plt.plot(x,y2,'c',label='honda',linewidth=5)
```

```

plt.plot(x,y3,'k',label='yamaha',linewidth=5)
plt.plot(x,y4,'y',label='ktm',linewidth=5)
plt.title('bike details in line plot')
plt.ylabel("distance in kms")
plt.xlabel('days')
plt.legend()

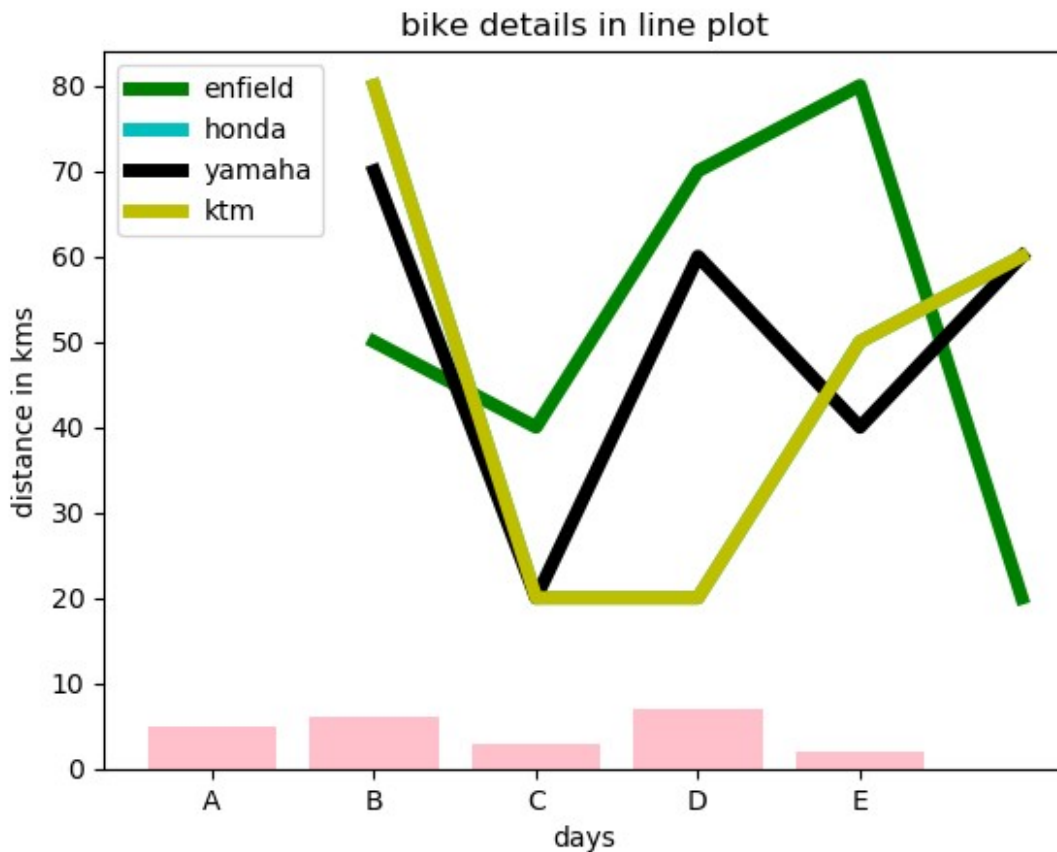
```

<matplotlib.legend.Legend at 0x7f115eead390>

```

x_values=[5,6,3,7,2]
y_values=["A","B","C","D","E"]
plt.bar(y_values,x_values,color="pink")
plt.show()

```



```

plt.bar([0.25,1.25,2.25,3.25,4.25],
[50,40,70,80,20],label="enfield",width=0.5)
plt.bar([0.26,1.25,2.25,3.25,4.25],
[50,40,70,80,20],label="honda",color='r',width=0.5)
plt.bar([0.31,1.5,2.5,3.5,4.5],
[50,40,70,80,20],label="yamaha",color='y',width=0.5)
plt.bar([0.75,1.75,2.75,3.75,4.75],
[50,40,70,80,20],label="ktm",color='g',width=0.5)

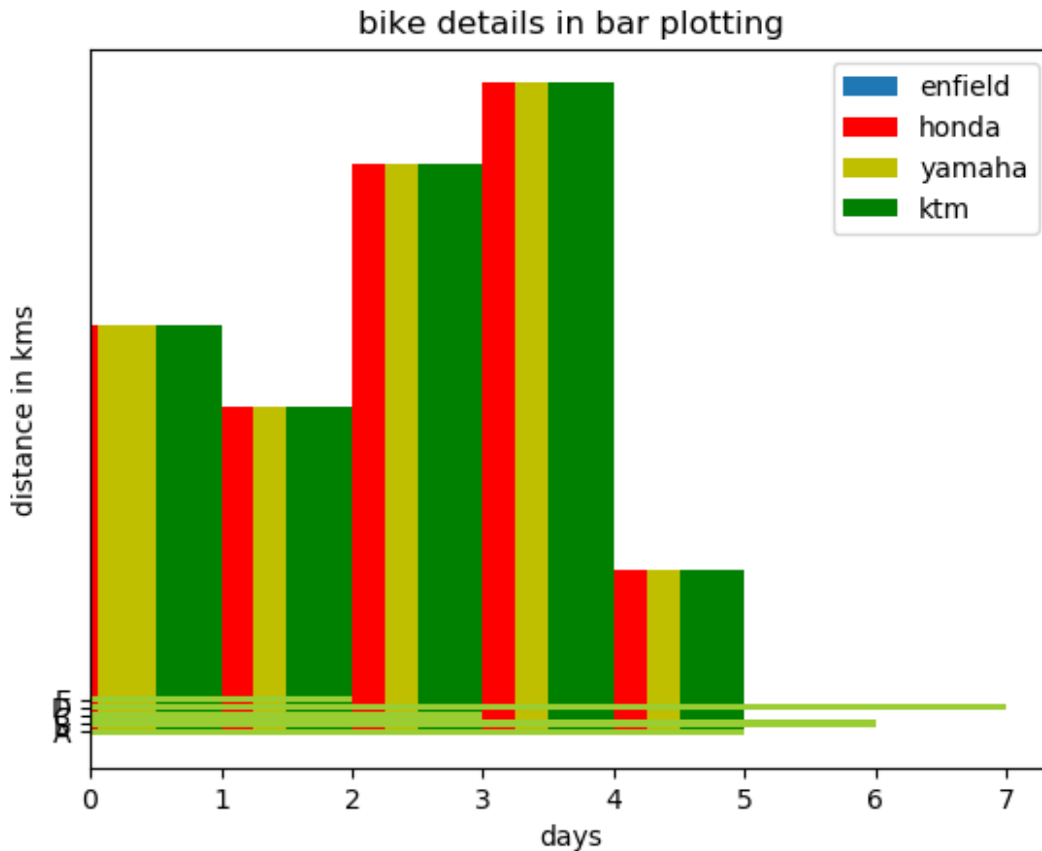
plt.legend()

```

```
plt.xlabel('days')
plt.ylabel('distance in kms')
plt.title('bike details in bar plotting')

Text(0.5, 1.0, 'bike details in bar plotting')

x_values=[5,6,3,7,2]
y_val=["A","B","C","D","E"]
plt.barh(y_val,x_values,color="yellowgreen")
plt.show()
```



```
import pandas as pd
import matplotlib.pyplot as plt
df = pd.read_csv('nba.csv')
print(df)
```

	Name	Team	Number	Position	Age	Height
0	Avery Bradley	Boston Celtics	0.0	PG	25.0	6-2
1	Jae Crowder	Boston Celtics	99.0	SF	25.0	6-6
2	John Holland	Boston Celtics	30.0	SG	27.0	6-5
3	R.J. Hunter	Boston Celtics	28.0	SG	22.0	6-5

185.0							
4	Jonas Jerebko	Boston Celtics	8.0	PF	29.0	6-10	
231.0							
..	...	...	...	...	...	...	.
..							
453	Shelvin Mack	Utah Jazz	8.0	PG	26.0	6-3	
203.0							
454	Raul Neto	Utah Jazz	25.0	PG	24.0	6-1	
179.0							
455	Tibor Pleiss	Utah Jazz	21.0	C	26.0	7-3	
256.0							
456	Jeff Withey	Utah Jazz	24.0	C	26.0	7-0	
231.0							
457	NaN	NaN	NaN	NaN	NaN	NaN	
NaN							

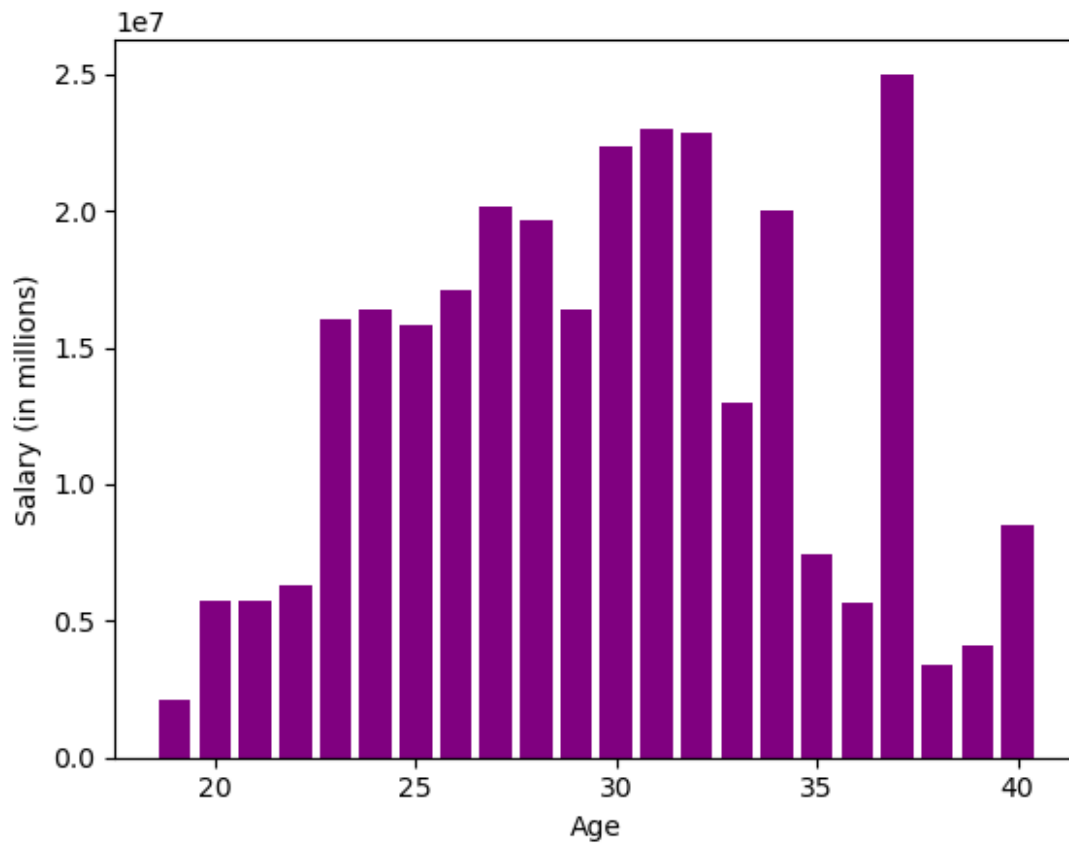
	College	Salary
0	Texas	7730337.0
1	Marquette	6796117.0
2	Boston University	NaN
3	Georgia State	1148640.0
4	NaN	5000000.0
..	...	...
453	Butler	2433333.0
454	NaN	900000.0
455	NaN	2900000.0
456	Kansas	947276.0
457	NaN	NaN

[458 rows x 9 columns]

```

y_values = df['Salary']
x_values = df['Age']
plt.xlabel('Age')
plt.ylabel('Salary (in millions)')
#To plot a bar graph plt.bar() command is used
#This plots a bar graph between Age and Salaries of NBA players
plt.bar(x_values,y_values,color = "purple")
plt.show()

```



```
y_values = df['Salary']
x_values = df['Age']
plt.xlabel('Age')
plt.ylabel('Salary (in millions)')
# Making changes in the color field changes the colour of the graph
plt.bar(x_values,y_values,color = "khaki")
plt.show()
```

