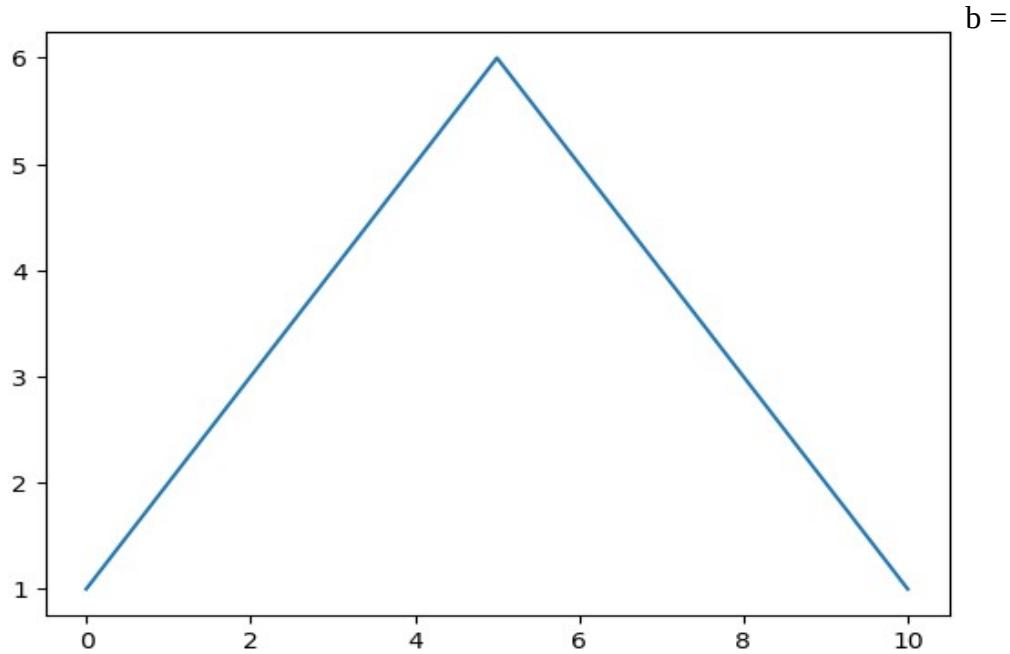
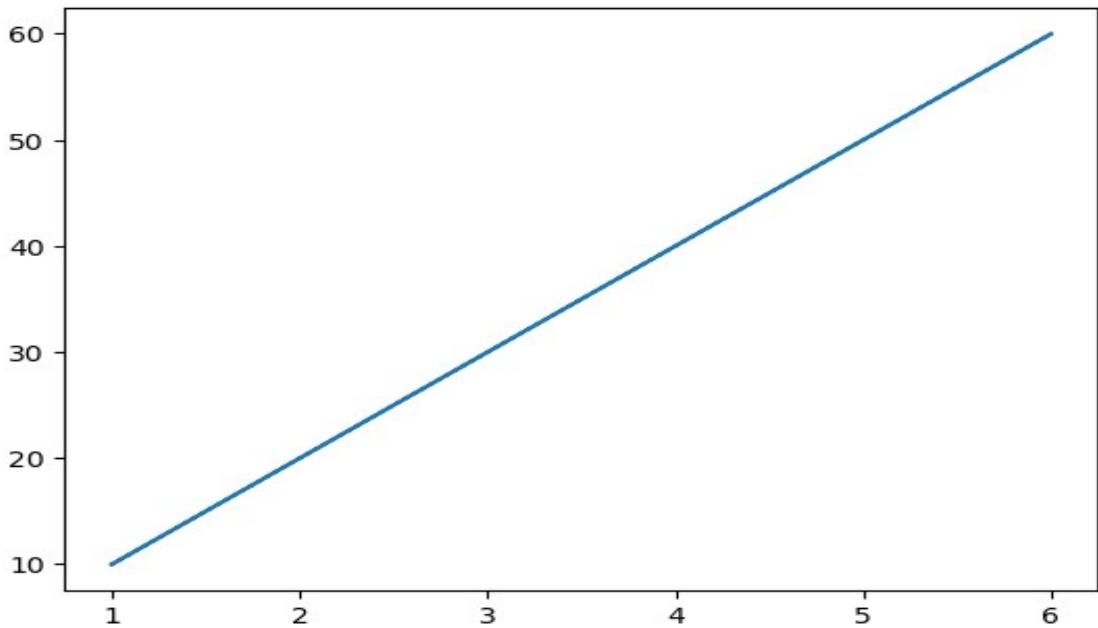


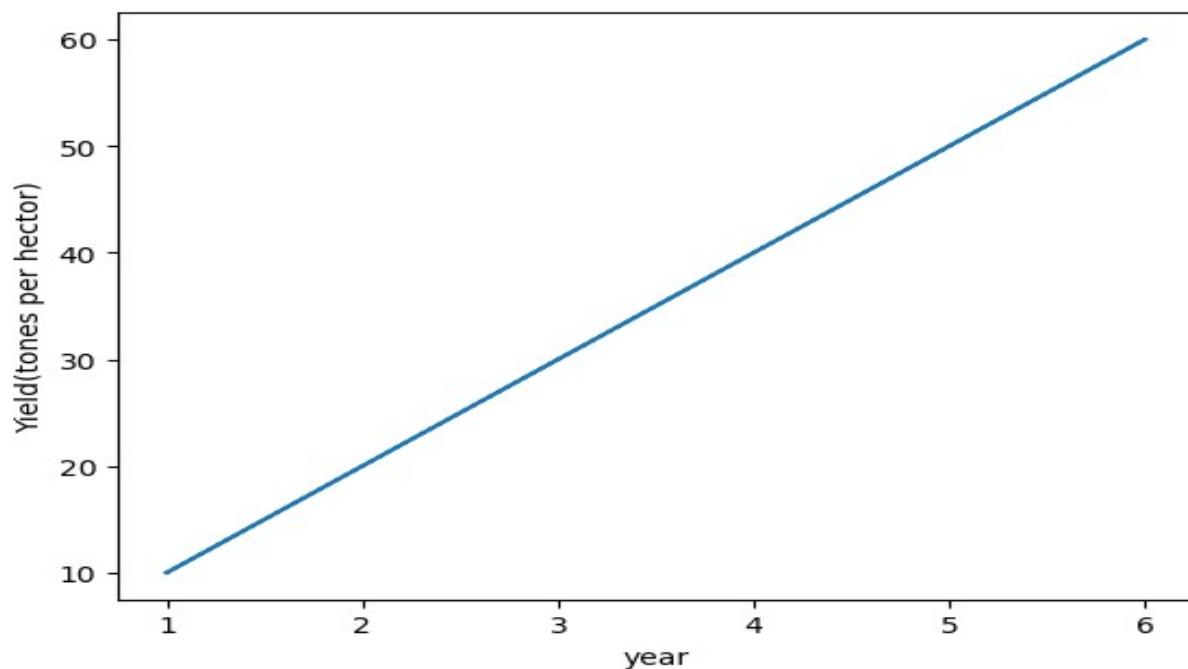
```
import matplotlib.pyplot as plt  
a = [1,2,3,4,5,6,5,4,3,2,1]  
plt.plot(a)
```



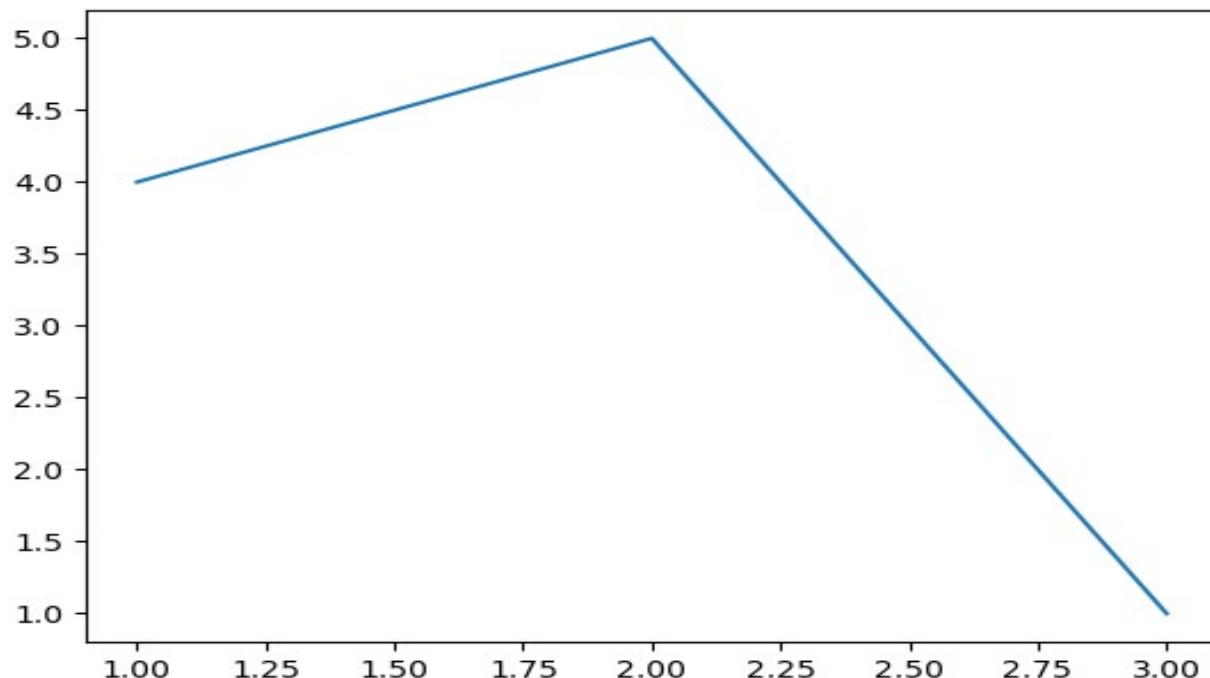
```
[10,20,30,40,50,60,50,40,30,20,10]  
plt.plot(a,b)
```



```
a = [1,2,3,4,5,6,5,4,3,2,1]  
b = [10,20,30,40,50,60,50,40,30,20,10]  
plt.plot(a,b)  
plt.xlabel('year')  
plt.ylabel('Yield(tones per hectare)')
```

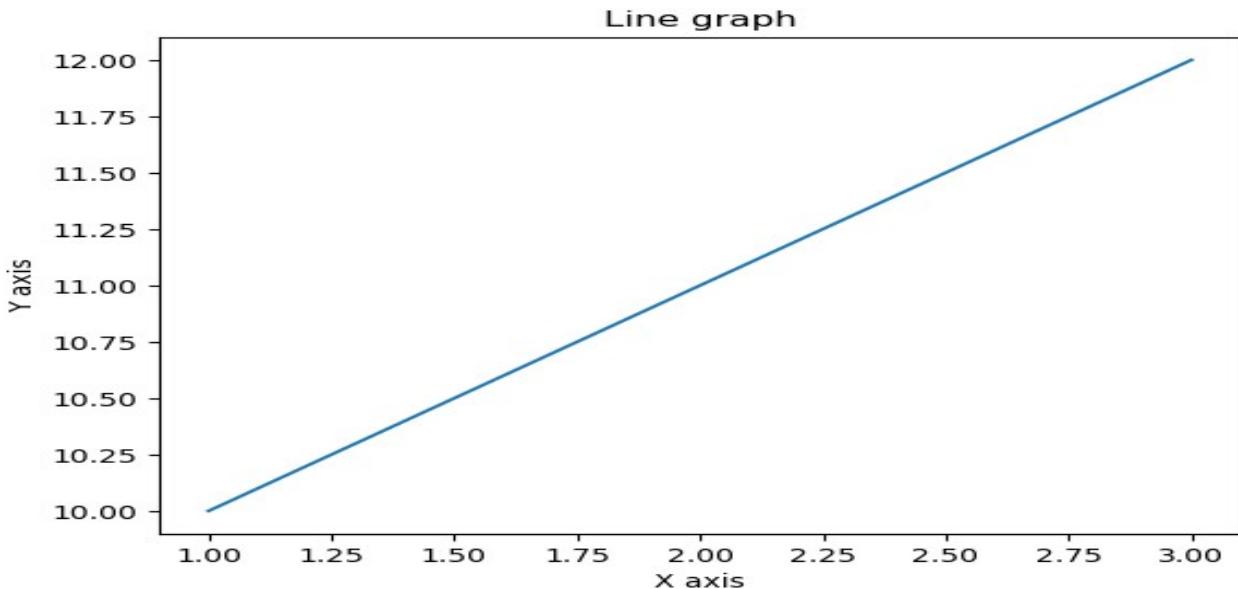


```
from matplotlib import pyplot as plt
#ploting our canvas
plt.plot([1,2,3],[4,5,1])
#display the graph
plt.show()
```

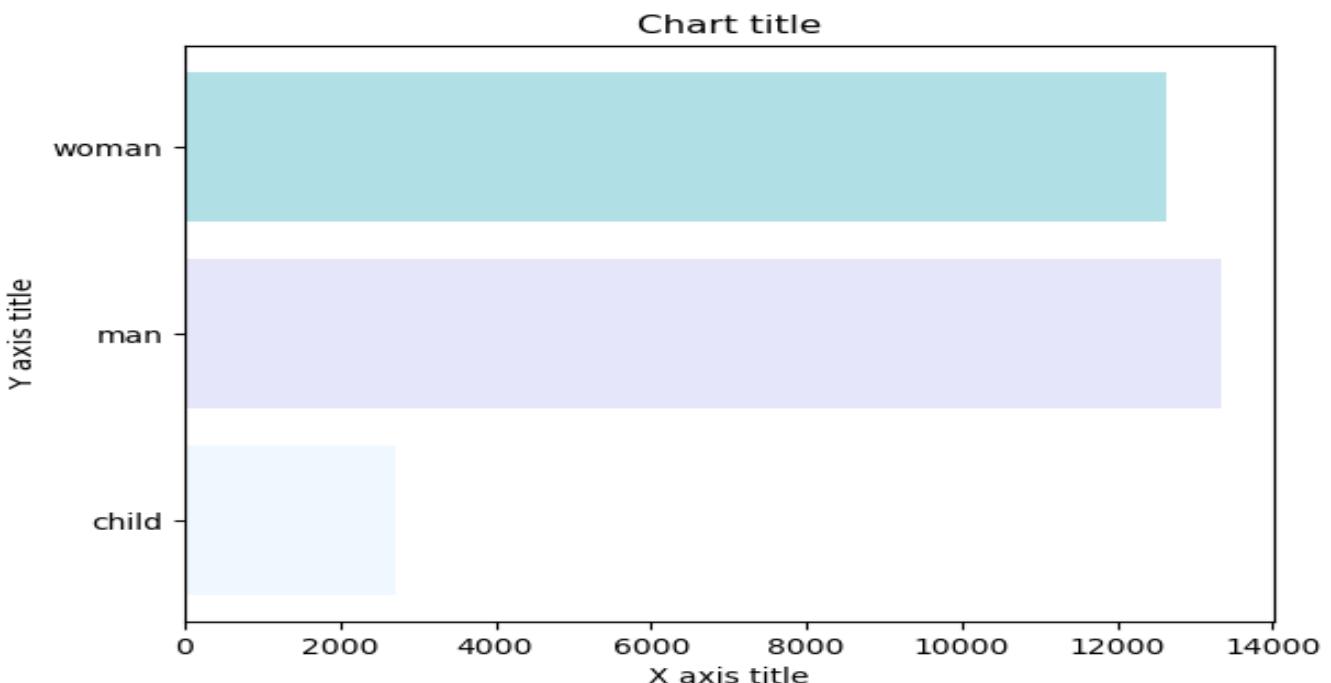


```
x = [1,2,3]
y = [10,11,12]
plt.plot(x,y)
plt.title("Line graph")
plt.ylabel('Y axis')
plt.xlabel('X axis')
```

```
plt.show()
```



```
import seaborn as sns  
#Creating the dataset  
df = sns.load_dataset('titanic')  
df=df.groupby('who')['fare'].sum().to_frame().reset_index()  
#Creating the bar chart  
plt.barh(df['who'],df['fare'],color = ['#F0F8FF','#E6E6FA','#B0E0E6'])  
#Adding the aesthetics  
plt.title('Chart title')  
plt.xlabel('X axis title')  
plt.ylabel('Y axis title')  
#Show the plot  
plt.show()
```

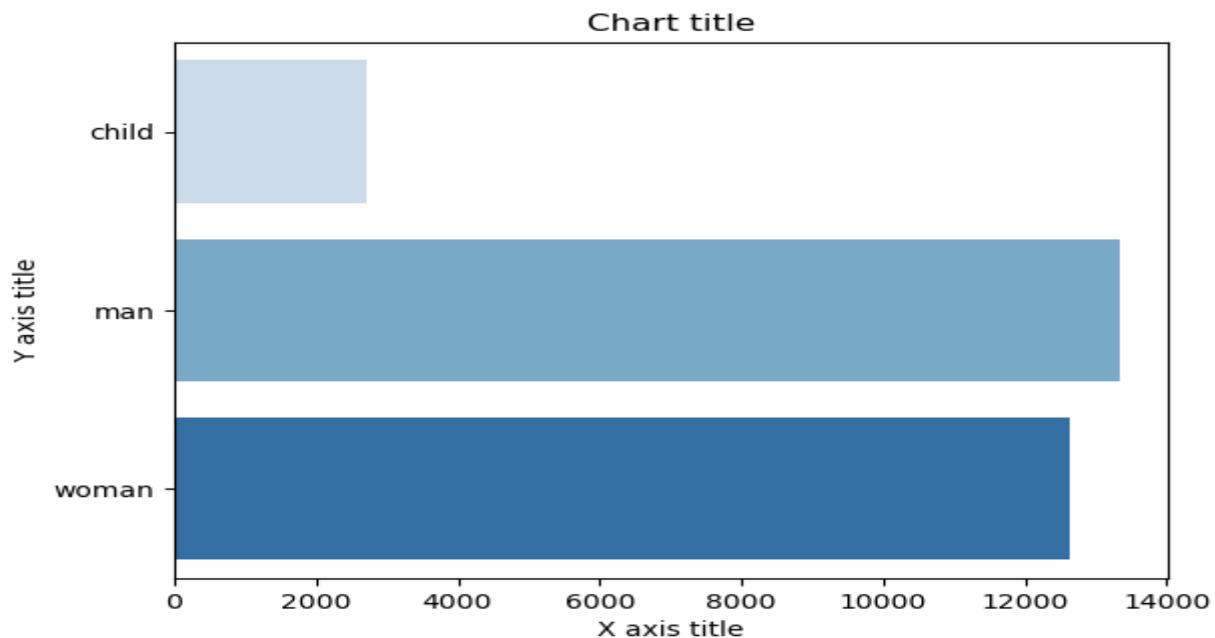


```
import seaborn as sns  
#Creating bar plot
```

```

sns.barplot(x = 'fare',y = 'who',data = df ,palette = "Blues")
#Adding the aesthetics
plt.title('Chart title')
plt.xlabel('X axis title')
plt.ylabel('Y axis title')
# Show the plot
plt.show()

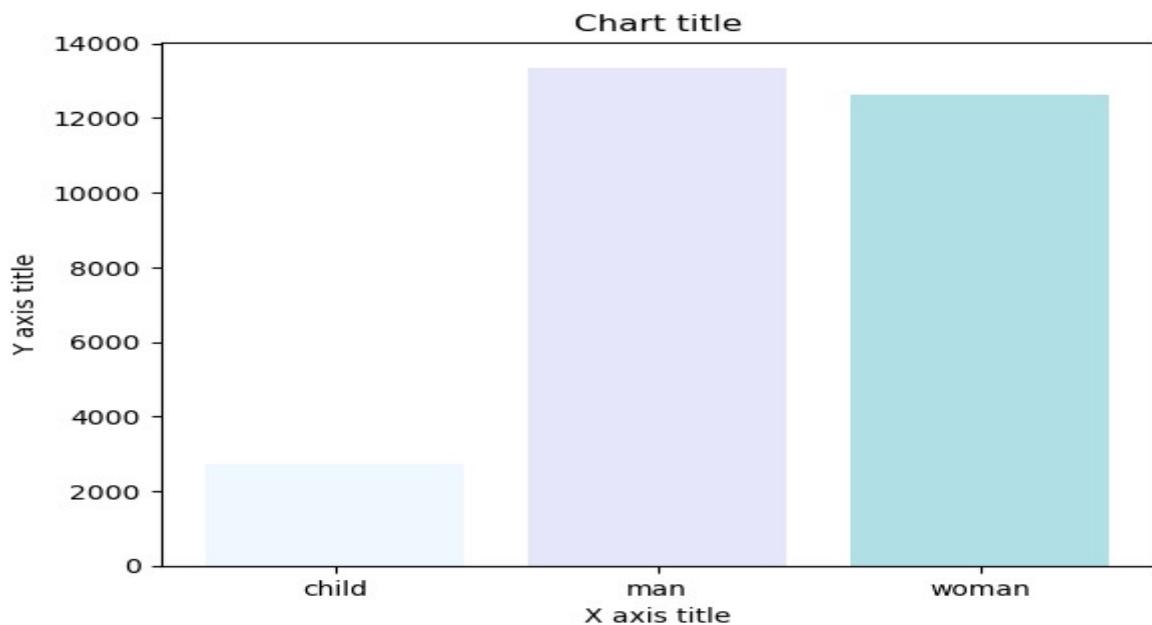
```



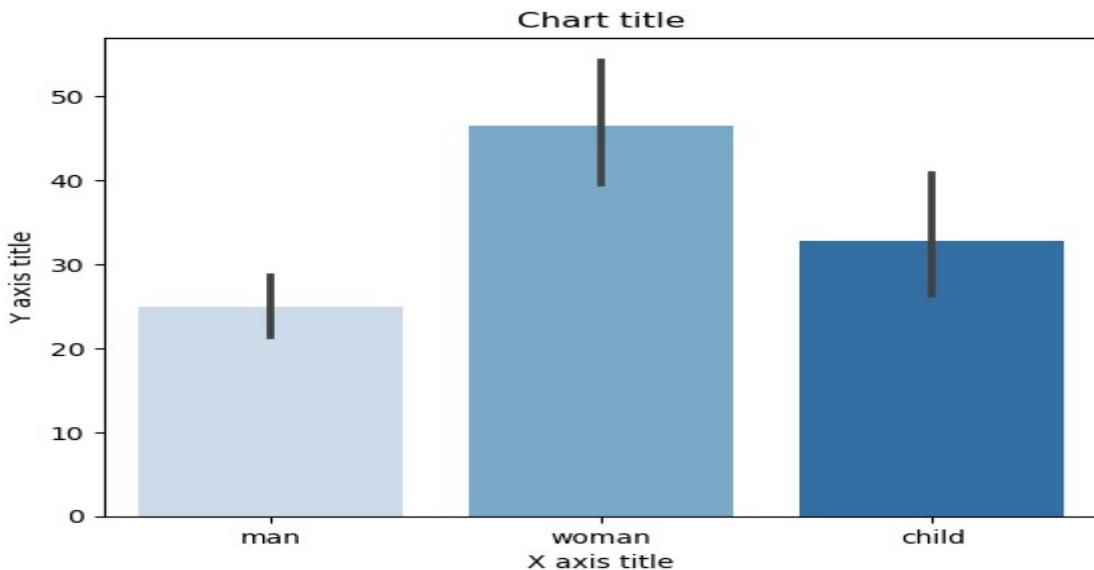
```

import seaborn as sns
#Creating the dataset
df = sns.load_dataset('titanic')
df=df.groupby('who')['fare'].sum().to_frame().reset_index()
#Creating the column plot
plt.bar(df['who'],df['fare'],color = ['#F0F8FF','#E6E6FA','#B0E0E6'])
#Adding the aesthetics
plt.title('Chart title')
plt.xlabel('X axis title')
plt.ylabel('Y axis title')
#Show the plot
plt.show()

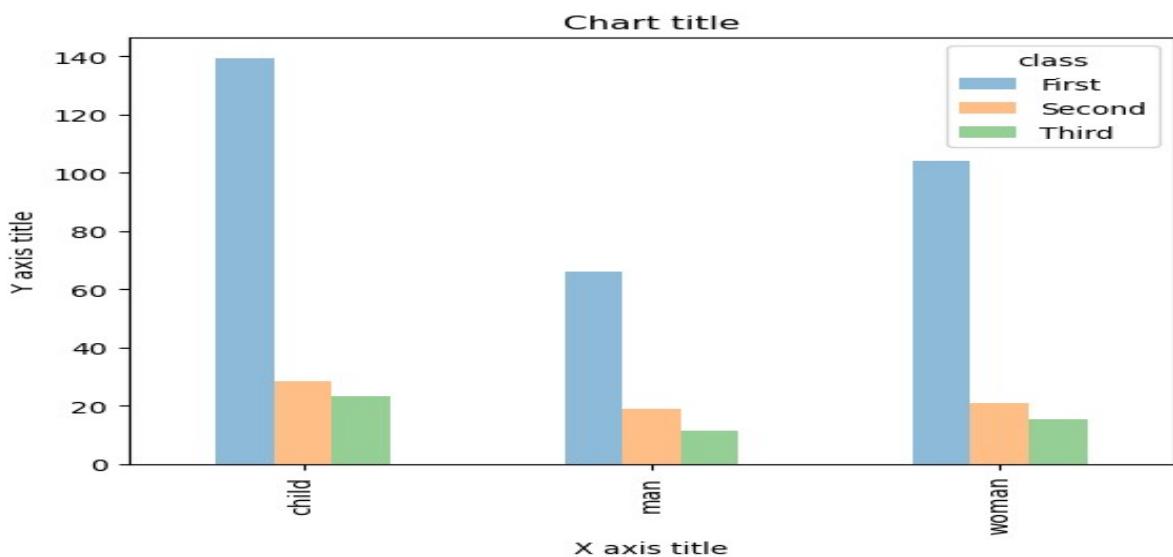
```



```
titanic_dataset = sns.load_dataset('titanic')
#Creating column chart
sns.barplot(x = 'who',y = 'fare',data = titanic_dataset,palette = "Blues")
#Adding the aesthetics
plt.title('Chart title')
plt.xlabel('X axis title')
plt.ylabel('Y axis title')
# Show the plot
plt.show()
```



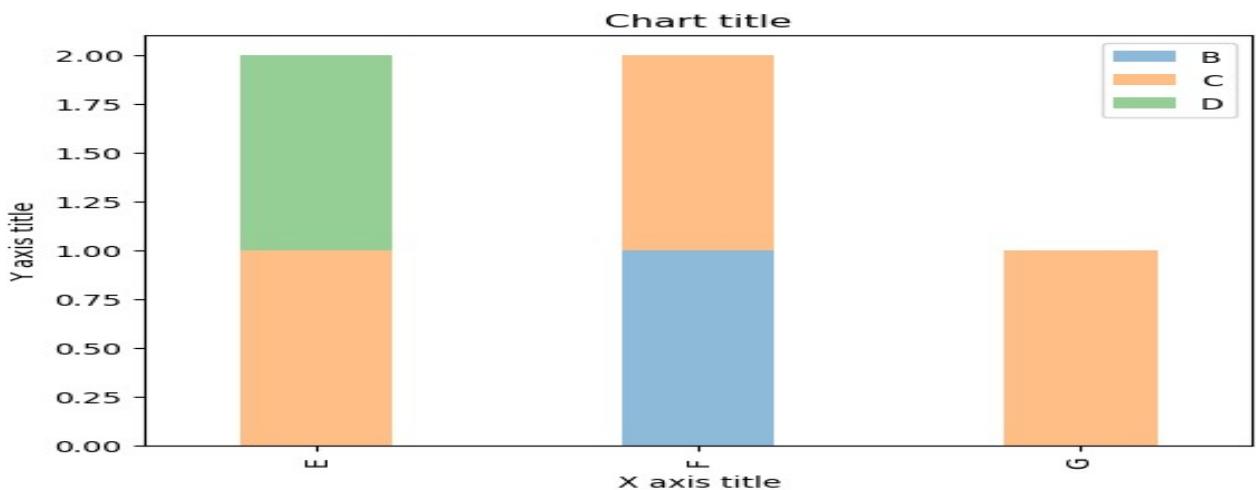
```
import seaborn as sns
import pandas as pd
import numpy as np
df = sns.load_dataset('titanic')
df_pivot = pd.pivot_table(df, values="fare",index="who",columns="class", aggfunc=np.mean)
#Creating a grouped bar chart
ax = df_pivot.plot(kind="bar",alpha=0.5)
#Adding the aesthetics
plt.title('Chart title')
plt.xlabel('X axis title')
plt.ylabel('Y axis title')
plt.show()
```



```

df = pd.DataFrame(columns=["A", "B", "C", "D"],
data=[[["E",0,1,1],
["F",1,1,0],
["G",0,1,0]]])
df.plot.bar(x='A', y=["B", "C", "D"], stacked=True, width = 0.4,alpha=0.5)
#Adding the aesthetics
plt.title('Chart title')
plt.xlabel('X axis title')
plt.ylabel('Y axis title')
#Show the plot
plt.show()

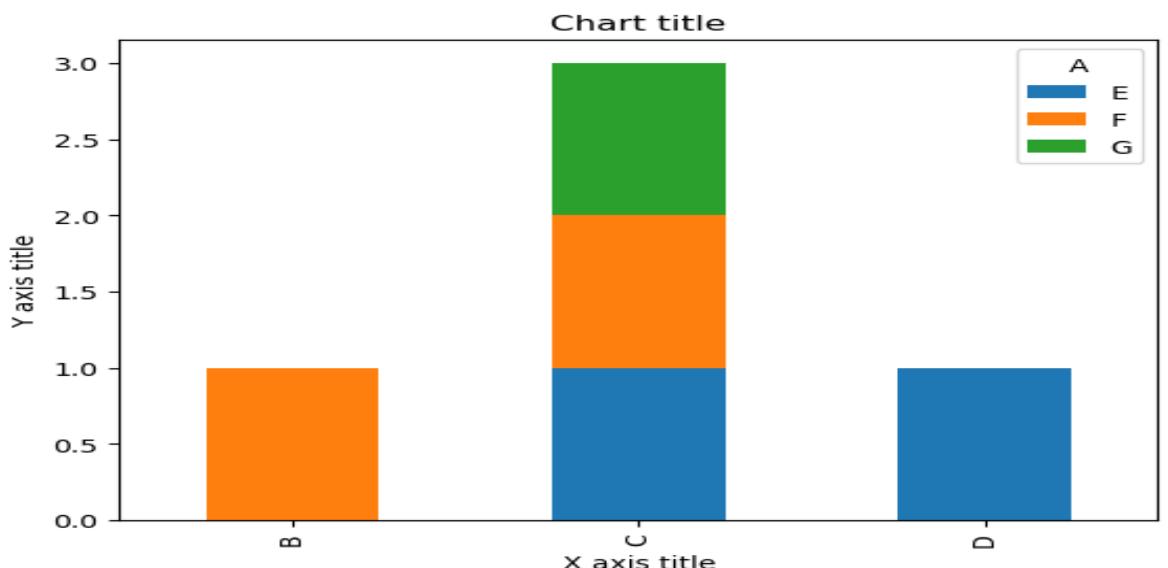
```



```

dataframe = pd.DataFrame(columns=["A", "B", "C", "D"],
data=[[["E",0,1,1],
["F",1,1,0],
["G",0,1,0]]])
dataframe.set_index('A').T.plot(kind='bar', stacked=True)
#Adding the aesthetics
plt.title('Chart title')
plt.xlabel('X axis title')
plt.ylabel('Y axis title')
# Show the plot
plt.show()

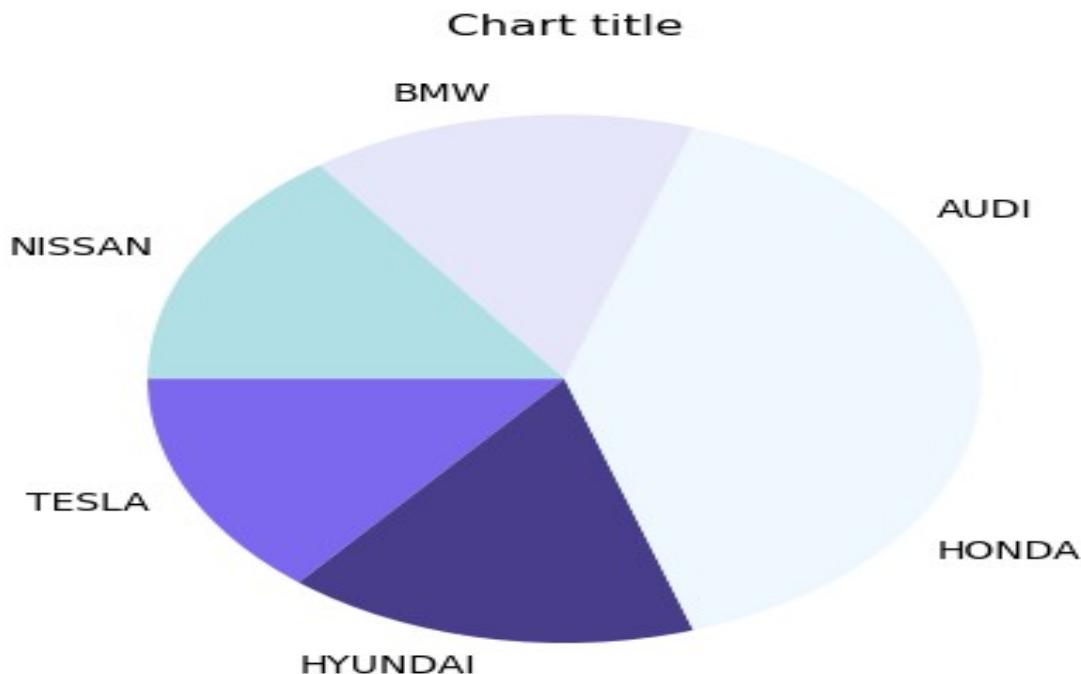
```



```

import matplotlib.pyplot as plt
#Creating the dataset
cars = ['AUDI', 'BMW', 'NISSAN',
'TESLA', 'HYUNDAI', 'HONDA']
data = [20, 15, 15, 14, 16, 20]
#Creating the pie chart
plt.pie(data, labels = cars,colors = ['#F0F8FF','#E6E6FA','#B0E0E6','#7B68EE','#483D8B'])
#Adding the aesthetics
plt.title('Chart title')
plt.show()

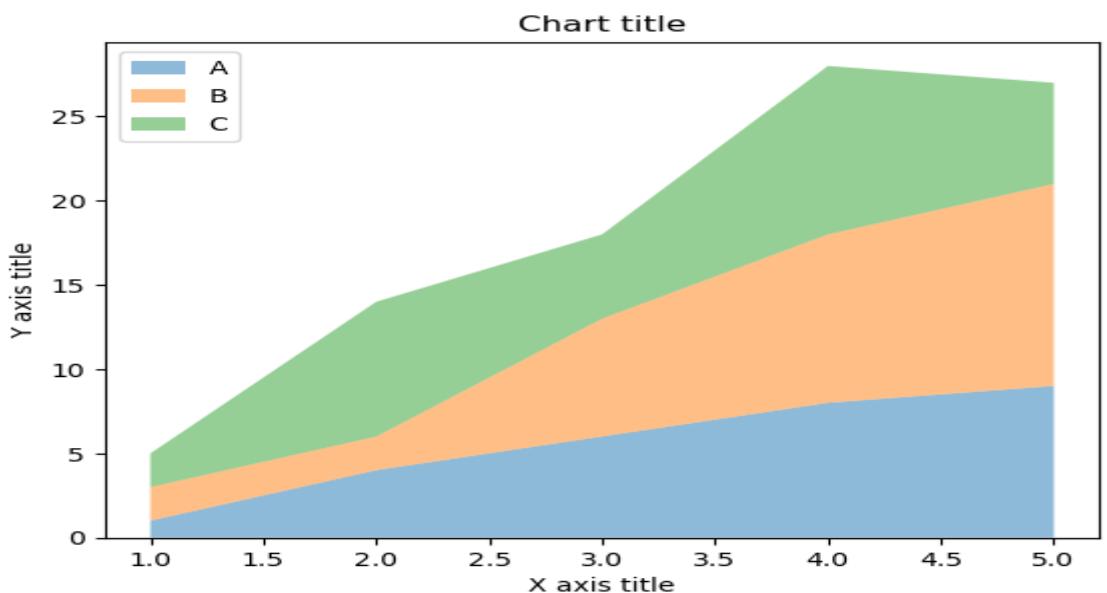
```



```

x=range(1,6)
y=[ [1,4,6,8,9], [2,2,7,10,12], [2,8,5,10,6] ]
#Creating the area chart
ax = plt.gca()
ax.stackplot(x, y, labels=['A','B','C'],alpha=0.5)
#Adding the aesthetics
plt.legend(loc='upper left')
plt.title('Chart title')
plt.xlabel('X
axis title')
plt.ylabel('Y
axis title')
#Show the plot
plt.show()

```



```
years_of_experience =[1,2,3]
salary=[ [6,8,10], [4,5,9], [3,5,7] ]
# Plot
plt.stackplot(years_of_experience,salary, labels=['Company A','Company B','Company C'])
plt.legend(loc='upper left')
#Adding the aesthetics
plt.title('Chart title')
plt.xlabel('X axis title')
plt.ylabel('Y axis title')
# Show the plot
plt.show()
```

