

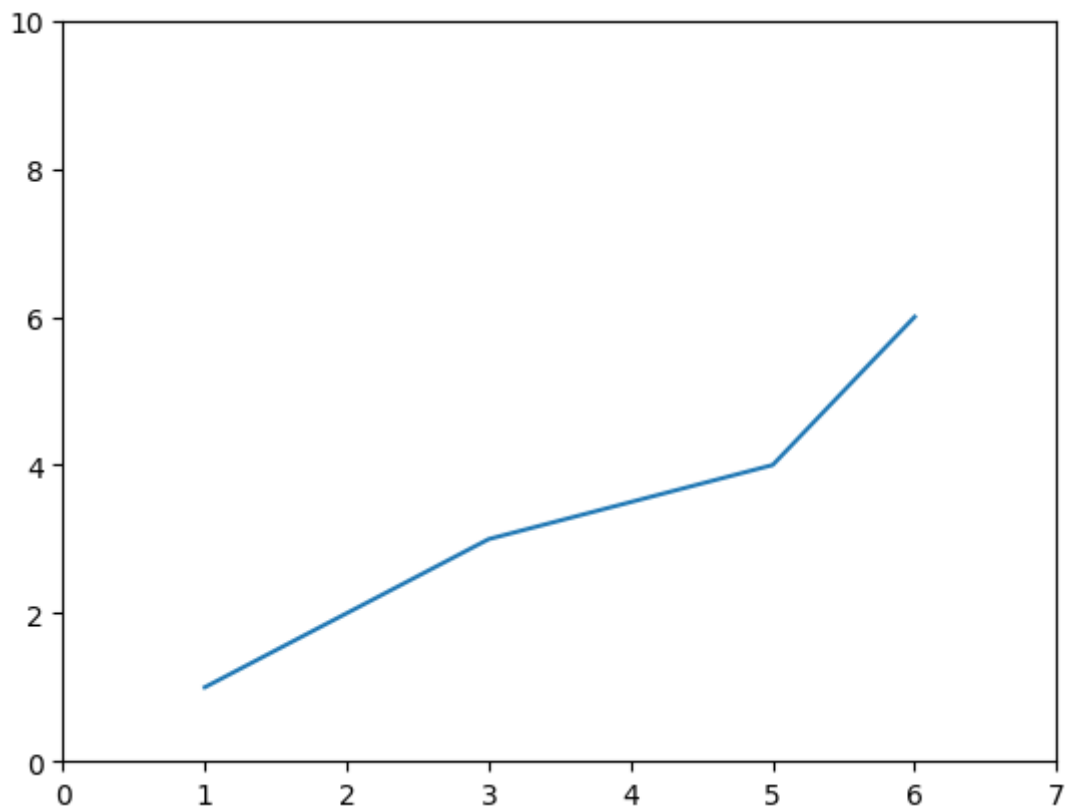
# BAR PLOTS

In [2]:

```
import matplotlib.pyplot as pyplot
pyplot.plot([1,2,3,5,6],[1,2,3,4,6])
pyplot.axis([0,7,0,10])
```

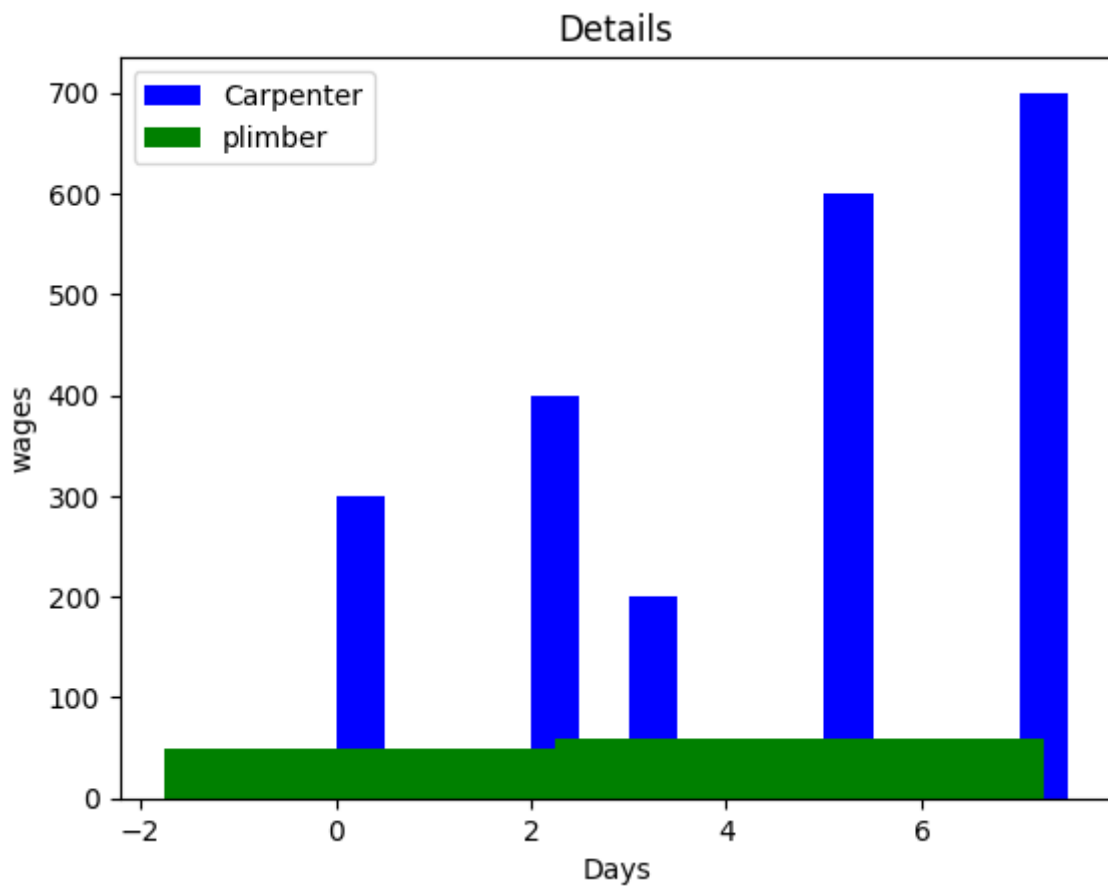
Out[2]:

(0.0, 7.0, 0.0, 10.0)



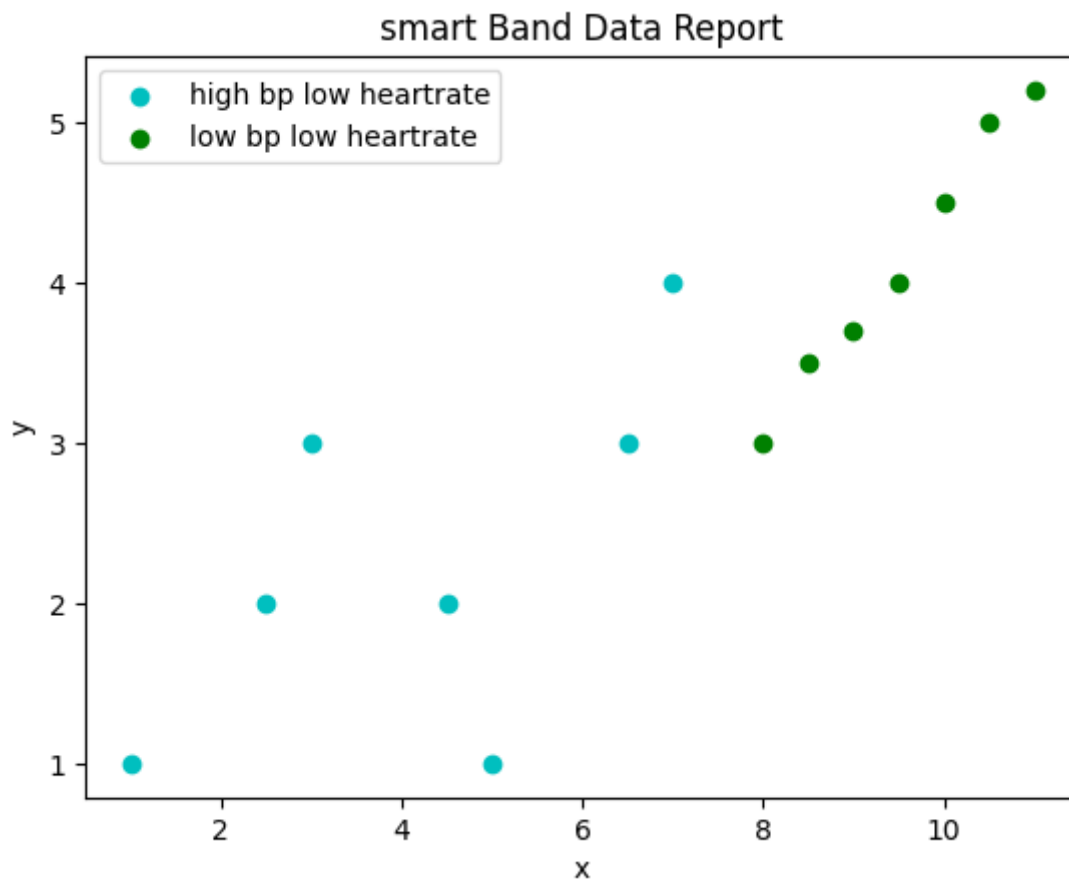
In [3]:

```
pyplot.bar([0.25,2.25,3.25,5.25,7.25],[300,400,200,600,700],  
           label="Carpenter",color='b',width=0.5)  
pyplot.bar([0.75,1.75,2.75,3.75,4.75],[50,30,20,50,60],  
           label='plimber',color='g',width=5)  
pyplot.legend()  
pyplot.xlabel('Days')  
pyplot.ylabel('wages')  
pyplot.title('Details')  
#print the chart  
pyplot.show()
```



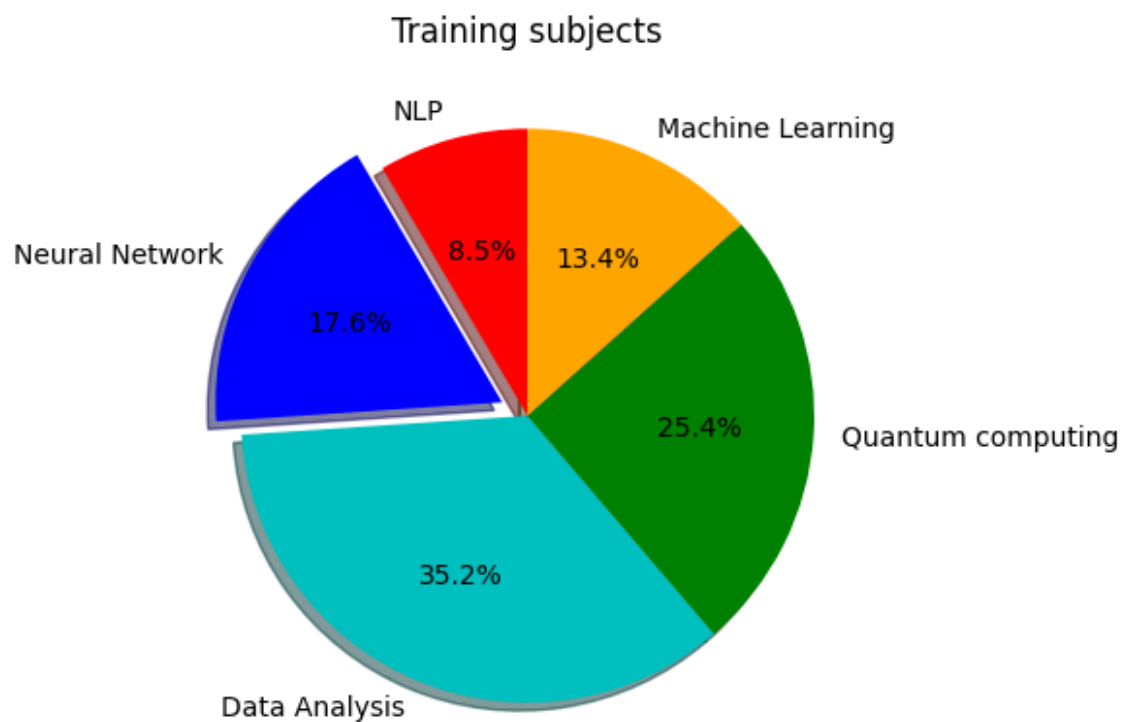
In [9]:

```
x1=[1,2.5,3,4.5,5,6.5,7]
y1=[1,2,3,2,1,3,4]
x2=[8,8.5,9,9.5,10,10.5,11]
y2=[3,3.5,3.7,4,4.5,5,5.2]
pyplot.scatter(x1,y1,label = 'high bp low heartrate',color='c')
pyplot.scatter(x2,y2,label = 'low bp low heartrate',color='g')
pyplot.title('smart Band Data Report')
pyplot.xlabel('x')
pyplot.ylabel('y')
pyplot.legend()
pyplot.show()
```



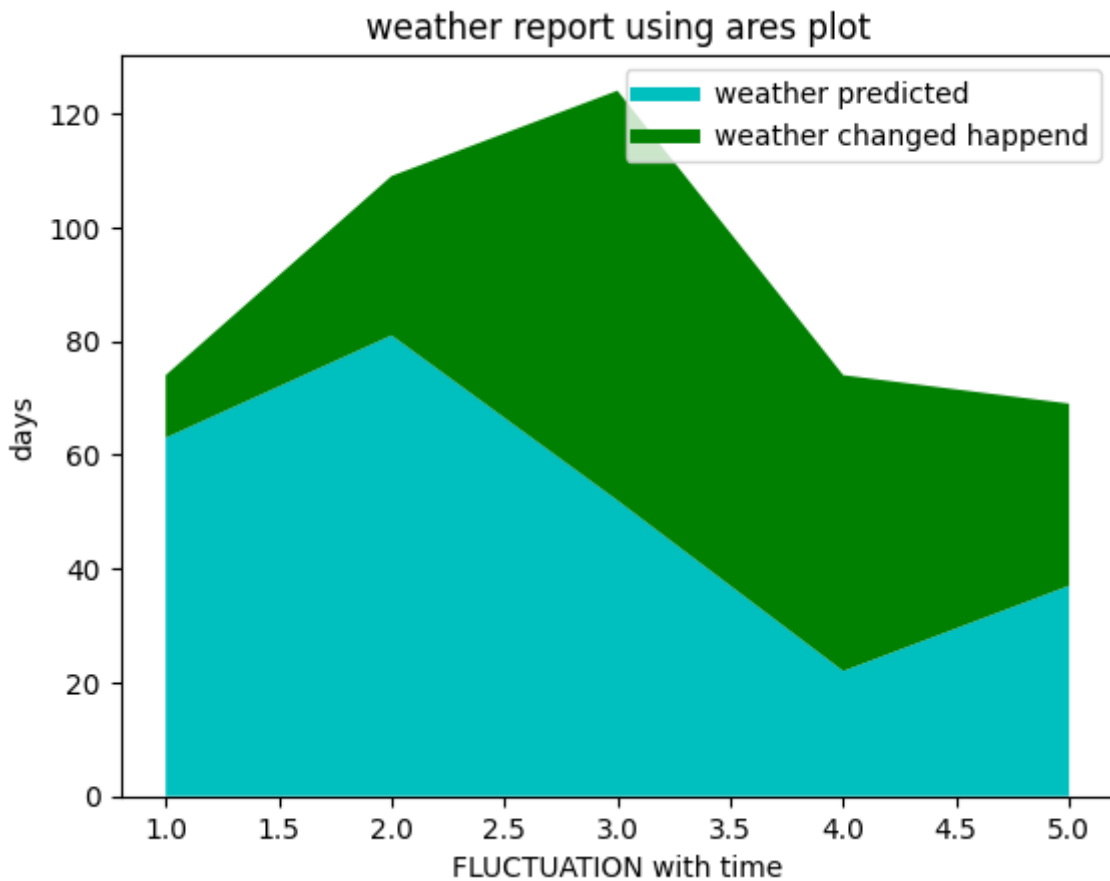
In [10]:

```
slice=[12,25,50,36,19]
activities=['NLP','Neural Network','Data Analysis','Quantum computing','Machine Learning']
cols=['r','b','c','g','orange']
pyplot.pie(slice,labels=activities,colors=cols,startangle=90,shadow=True,explode=(0,0.1,
pyplot.title('Training subjects')
pyplot.show()
```



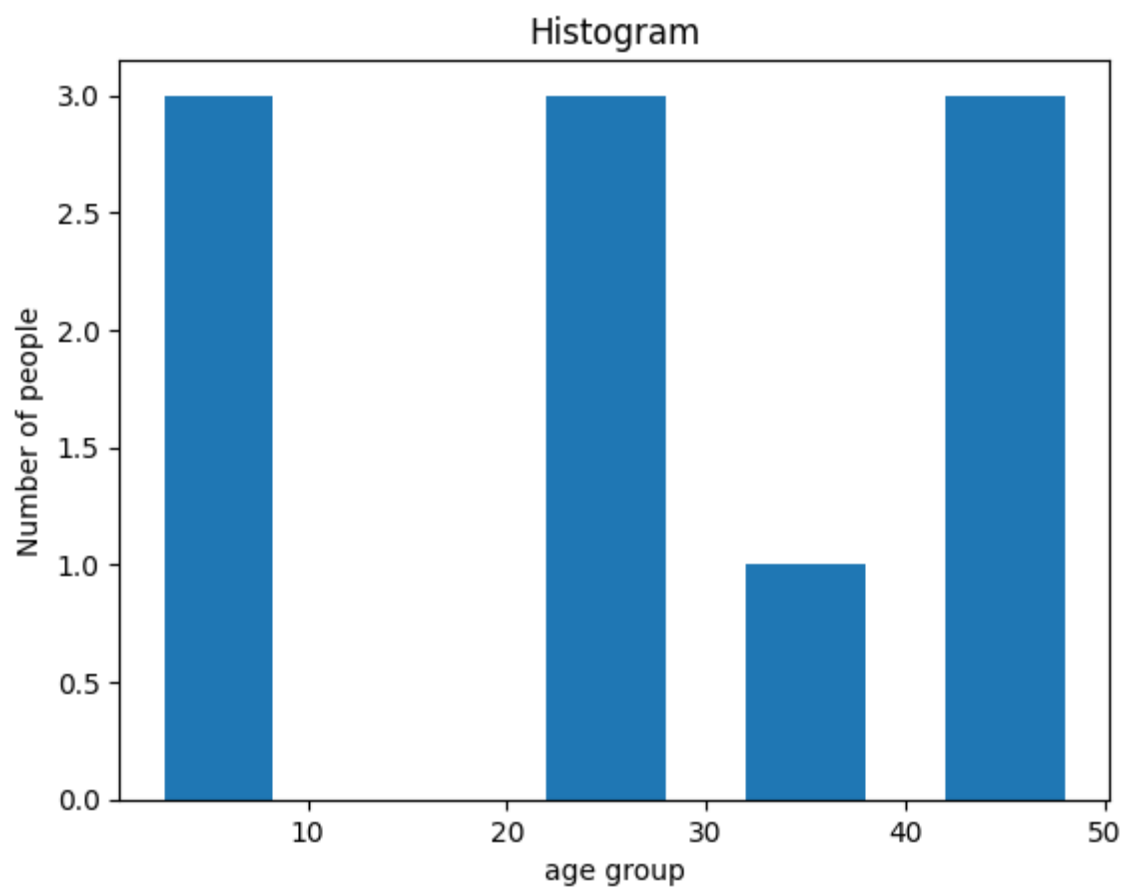
In [12]:

```
days=[1,2,3,4,5]
age=[63,81,52,22,37]
weight=[11,28,72,52,32]
pyplot.plot([],[],color='c',label='weather predicted',linewidth=5)
pyplot.plot([],[],color='g',label='weather changed happend',linewidth=5)
pyplot.stackplot(days,age,weight,colors=['c','g'])
pyplot.xlabel('FLUCTUATION with time')
pyplot.ylabel('days')
pyplot.title('weather report using ares plot')
pyplot.legend()
pyplot.show()
```



In [13]:

```
pop=[22,55,62,45,21,22,34,42,42,4,2,8]
bins=[1,10,20,30,40,50]
pyplot.hist(pop,bins,rwidth=0.6)
pyplot.xlabel('age group')
pyplot.ylabel('Number of people')
pyplot.title('Histogram')
pyplot.show()
```



In [ ]: