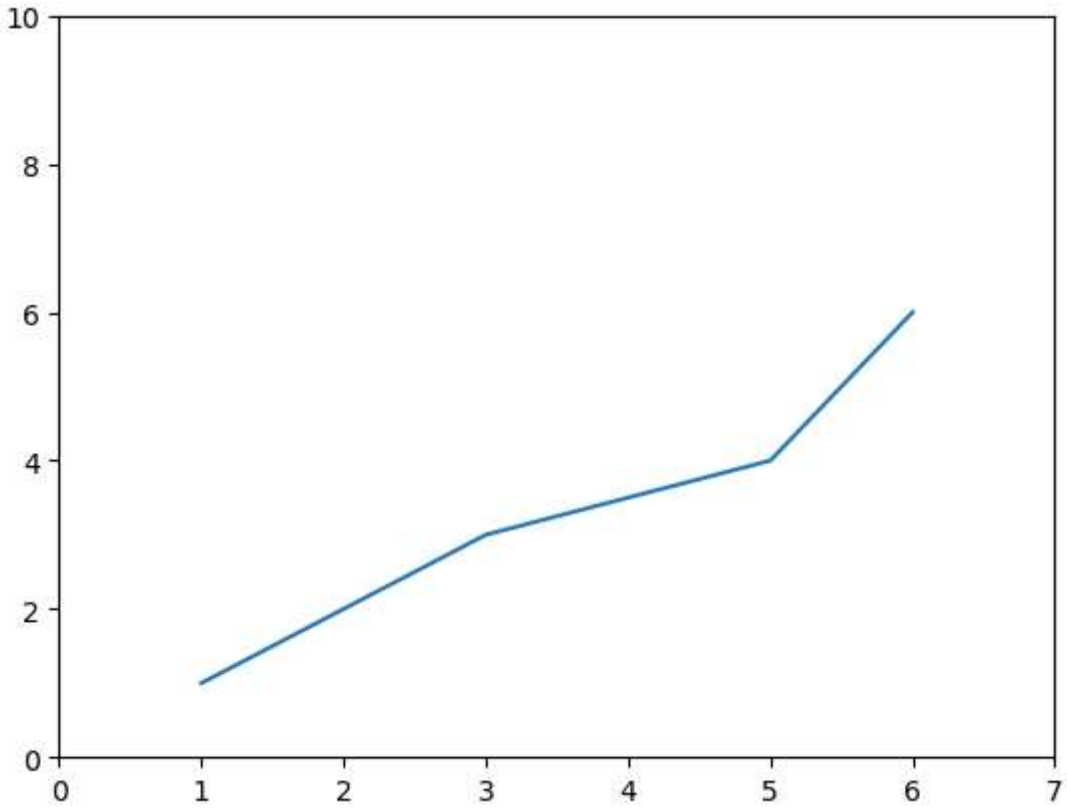
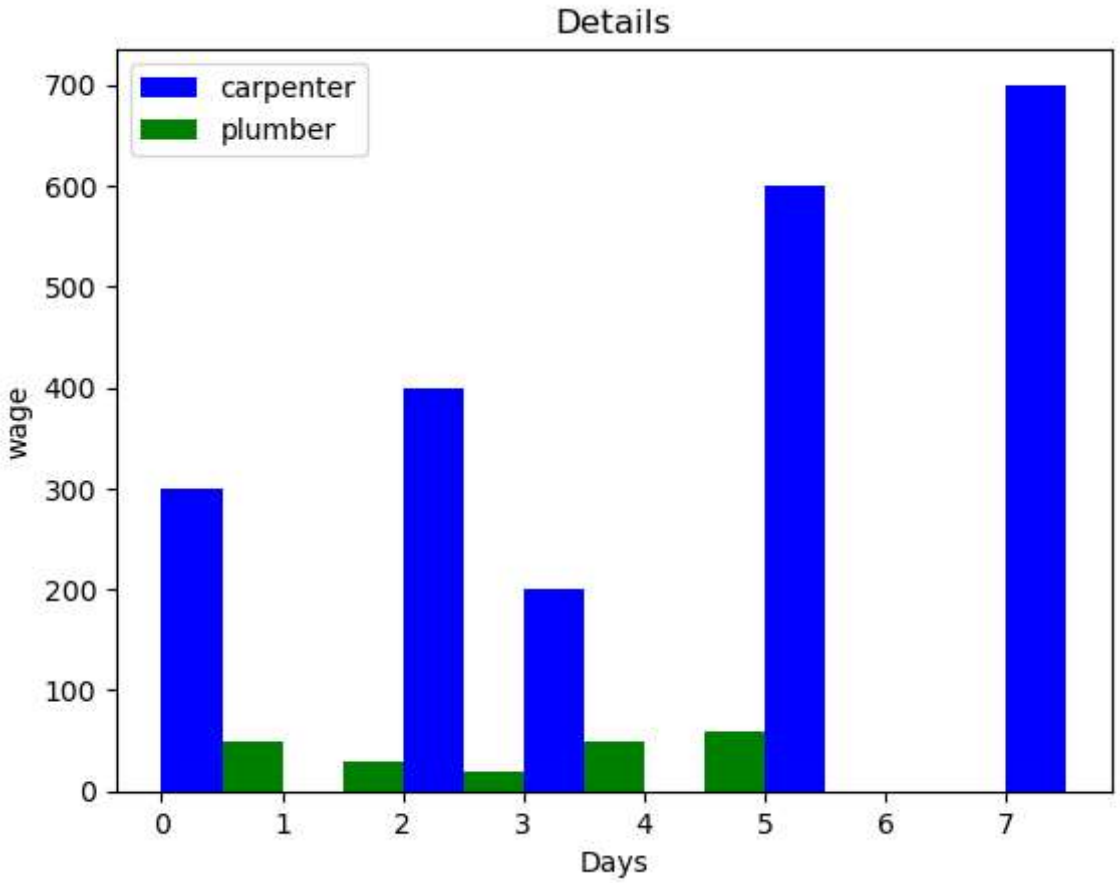
VISUALIZATION

PLOTS

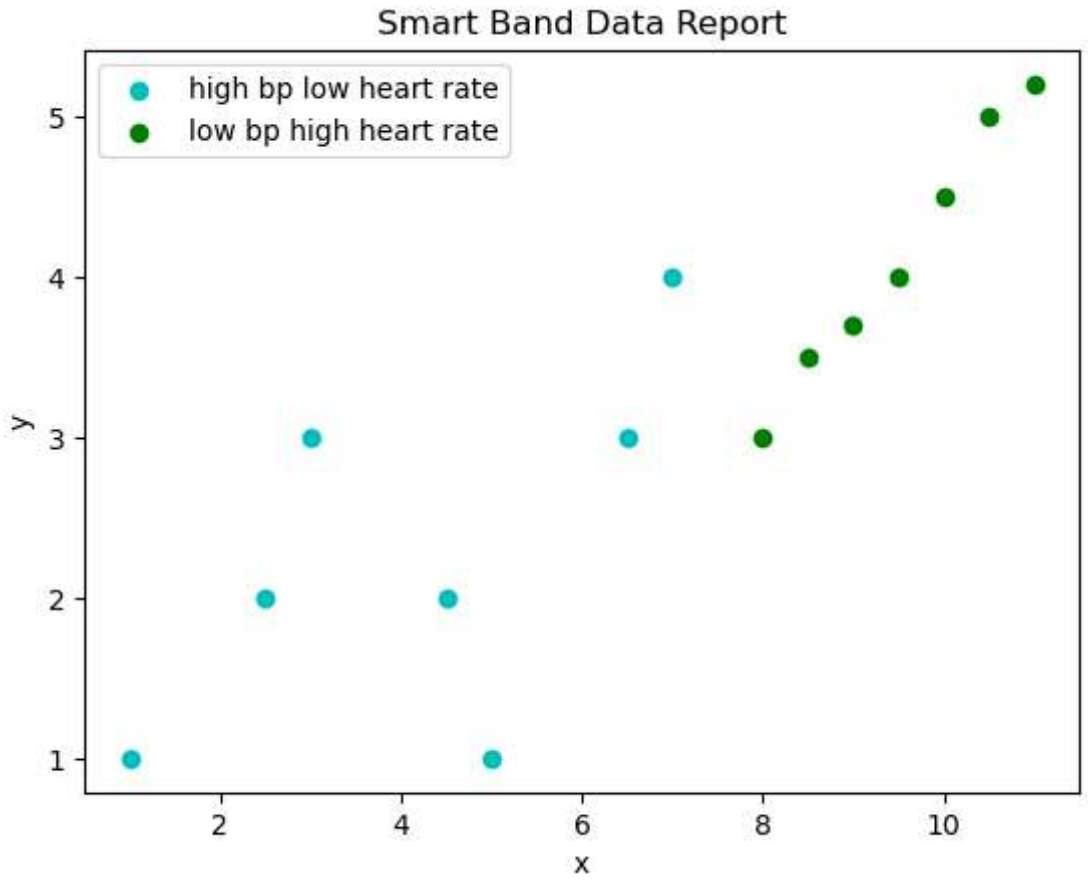
In [2]:
```
#Lineplot
import matplotlib.pyplot as pyplot
pyplot.plot([1,2,3,5,6],[1,2,3,4,6])
pyplot.axis([0,7,0,10])
pyplot.show()
```



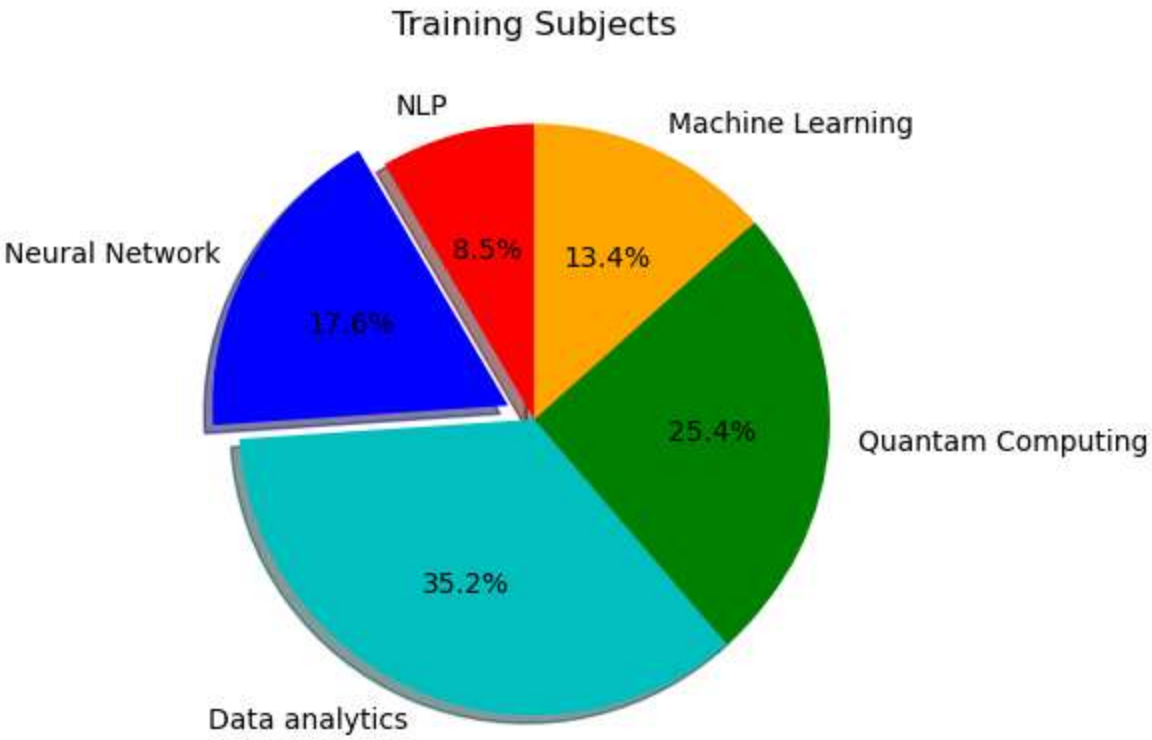
In [4]:
```
#Barplot
pyplot.bar([0.25,2.25,3.25,5.25,7.25],[300,400,200,600,700],label="carpenter",
pyplot.bar([0.75,1.75,2.75,3.75,4.75],[50,30,20,50,60],label="plumber",color='
pyplot.legend()
pyplot.xlabel('Days')
pyplot.ylabel('wage')
pyplot.title('Details')
pyplot.show()
```



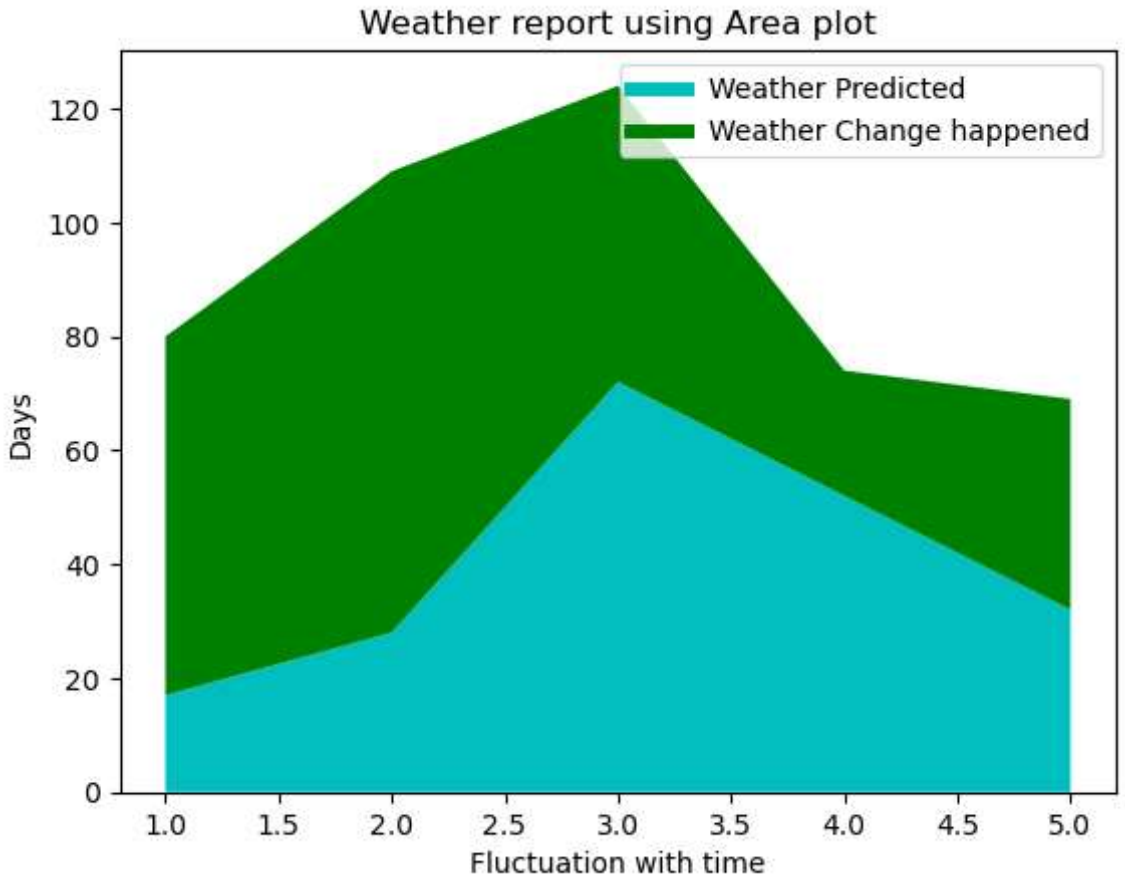
In [5]:
```
#Scatterplot
x1=[1,2.5,3,4.5,5,6.5,7]
y1=[1,2,3,2,1,3,4]
x2=[8,8.5,9,9.5,10,10.5,11]
y2=[3,3.5,3.7,4,4.5,5,5.2]
pyplot.scatter(x1,y1,label='high bp low heart rate',color='c')
pyplot.scatter(x2,y2,label='low bp high heart rate',color='g')
pyplot.title('Smart Band Data Report')
pyplot.xlabel('x')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



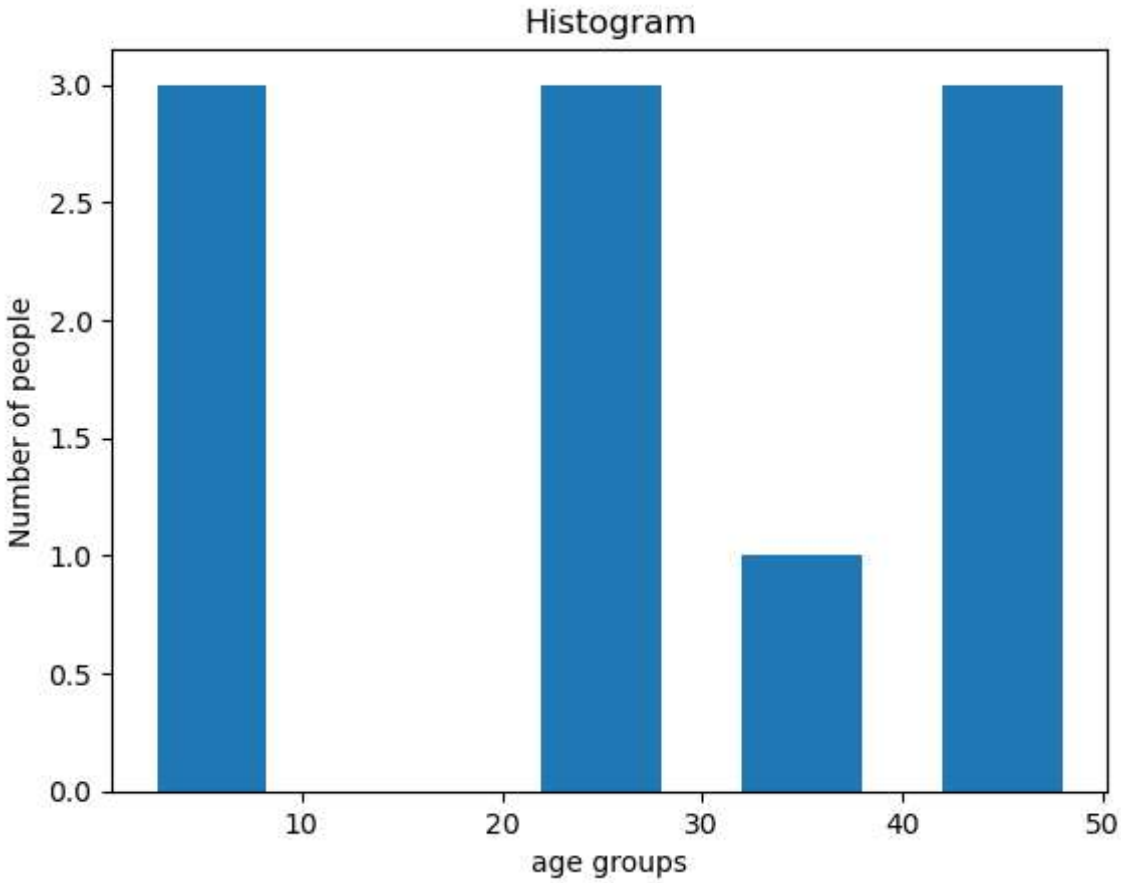
In [6]:
```
#pieplot
slice=[12,25,50,36,19]
activites=['NLP','Neural Network','Data analytics','Quantam Computing','Machir
cols=['r','b','c','g','orange']
pyplot.pie(slice,labels=activites,colors=cols,startangle=90,shadow=True,explod
pyplot.title('Training Subjects')
#print the chart
pyplot.show()
```



In [7]:
```
#Areaplot
days=[1,2,3,4,5]
age=[63,81,52,22,37]
weight=[17,28,72,52,32]
pyplot.plot([],[],color='c',label='Weather Predicted',linewidth=5)
pyplot.plot([],[],color='g',label='Weather Change happened',linewidth=5)
pyplot.stackplot(days,weight,age,colors=['c','g'])
pyplot.xlabel('Fluctuation with time')
pyplot.ylabel('Days')
pyplot.title('Weather report using Area plot')
pyplot.legend()
pyplot.show()
```



In [8]:
```
#Histogram
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 groups')
pyplot.ylabel('Number of people')
pyplot.title('Histogram')
pyplot.show()
```



In [ ]:
```

```