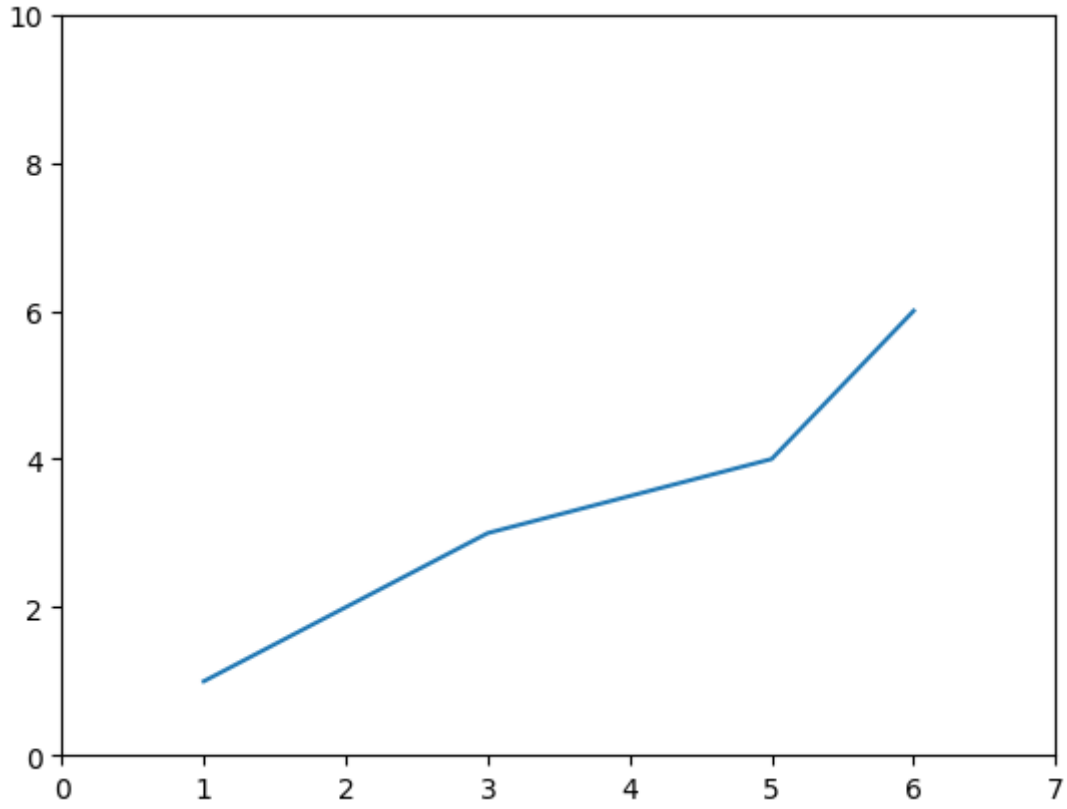
# Line Plot

In [1]:

```
import matplotlib.pyplot as pyplot

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

#print the chart
pyplot.show()
```

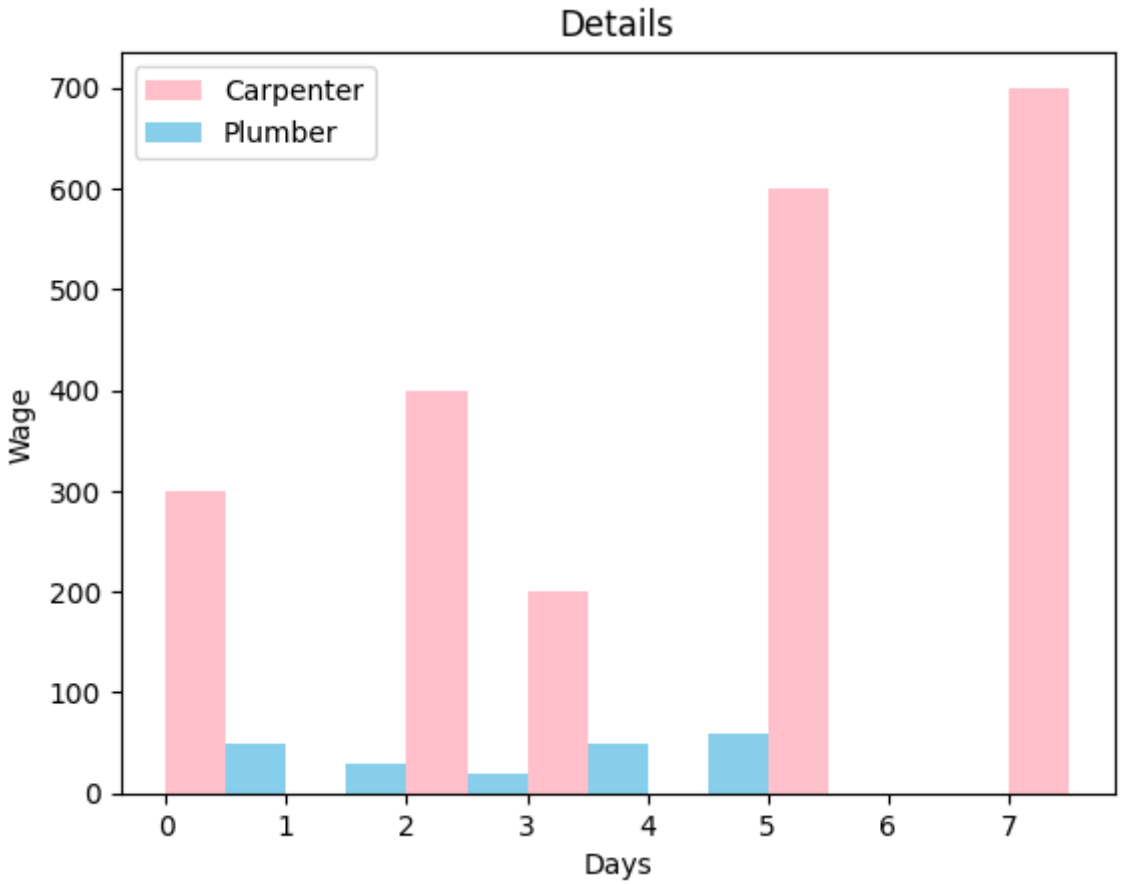


In [12]:

```
pyplot.bar([0.25,2.25,3.25,5.25,7.25],[300,400,200,600,700],
label="Carpenter",color='pink',width=0.5)
pyplot.bar([0.75,1.75,2.75,3.75,4.75],[50,30,20,50,60],
label="Plumber",color='skyblue',width=.5)
pyplot.legend()
pyplot.xlabel('Days')
pyplot.ylabel('Wage')
pyplot.title('Details')
```

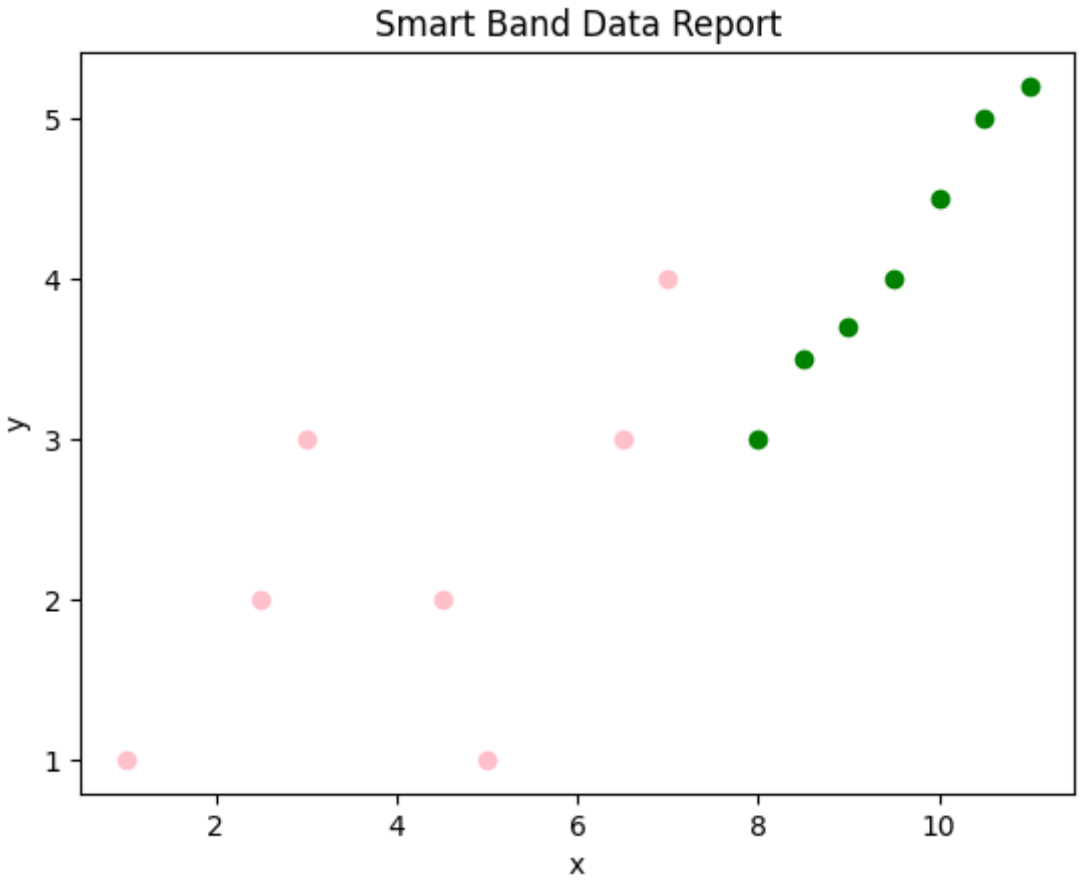
Out[12]:

```
Text(0.5, 1.0, 'Details')
```



In [16]:

```
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='pink')
pyplot.scatter(x2, y2, label = 'low bp high heartrate',color='green')
pyplot.title('Smart Band Data Report')
pyplot.xlabel('x')
pyplot.ylabel('y')
pyplot.show()
pyplot.legend
```

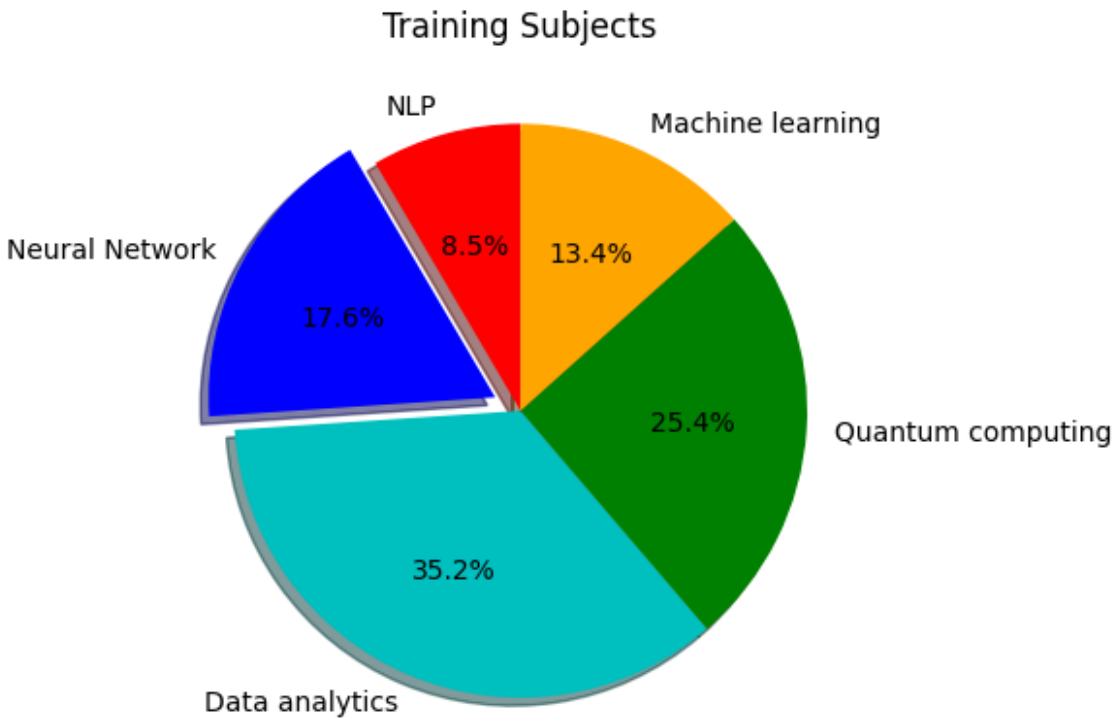



Out[16]:

```
<function matplotlib.pyplot.legend(*args, **kwargs)>
```

In [26]:

```
Slice=[12,25,50,36,19]
activities=['NLP','Neural Network','Data analytics','Quantum computing','Machine learnin
cols=['r','b','c','g','orange']
pyplot.pie(Slice,labels=activities,colors=cols,startangle=90,
shadow=True,
explode=(0,0.1,0,0,0),
autopct='%1.1f%%')
pyplot.title('Training Subjects')
pyplot.show()
```

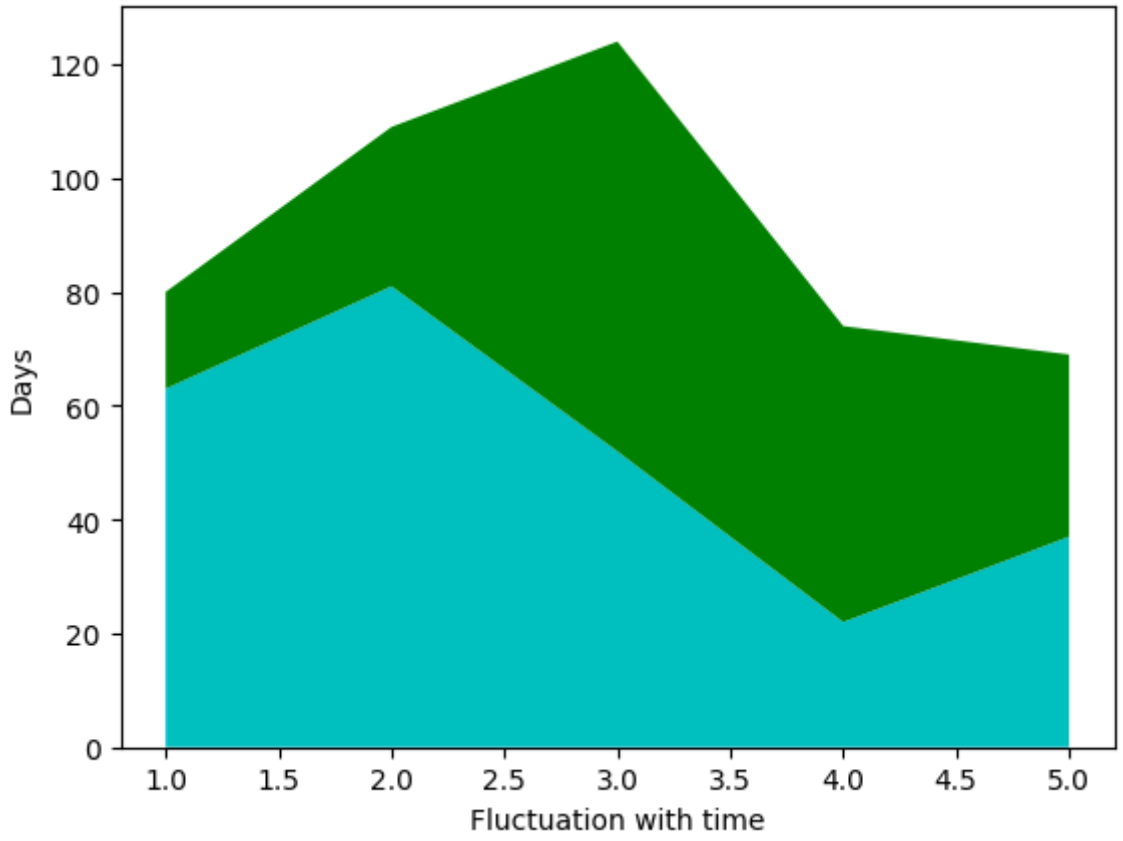


In [22]:

```
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, age, weight, colors = ['c', 'g'])
pyplot.xlabel('Fluctuation with time')
pyplot.ylabel('Days')
```

Out[22]:

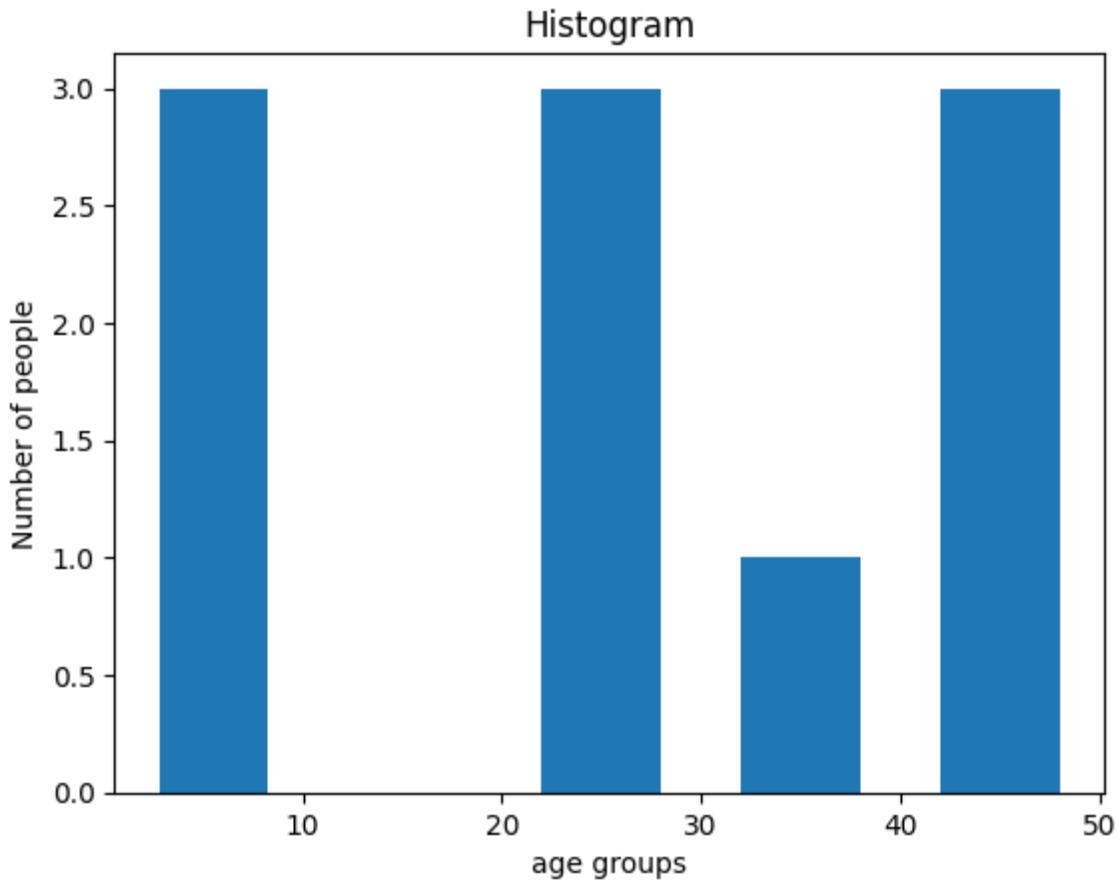
```
Text(0, 0.5, 'Days')
```



In [24]:

```
pop = [22,55,62,45,21,22,34,42,424,442,42,4,2,8]
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 [ ]: