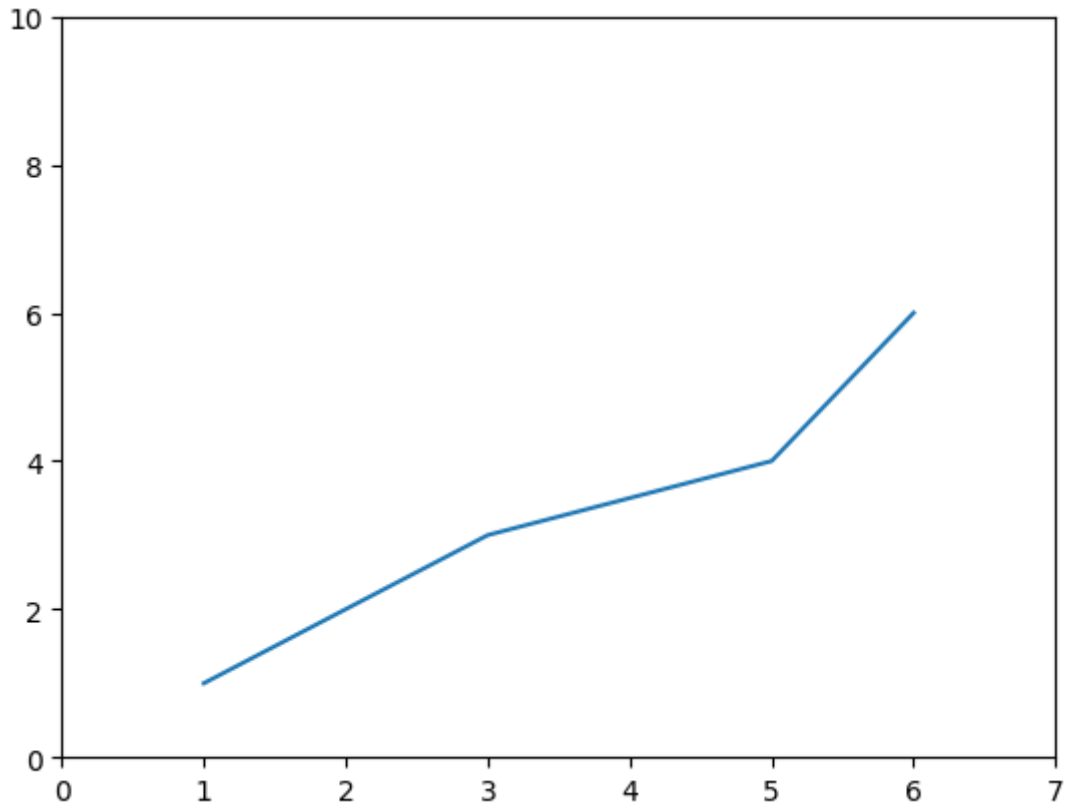
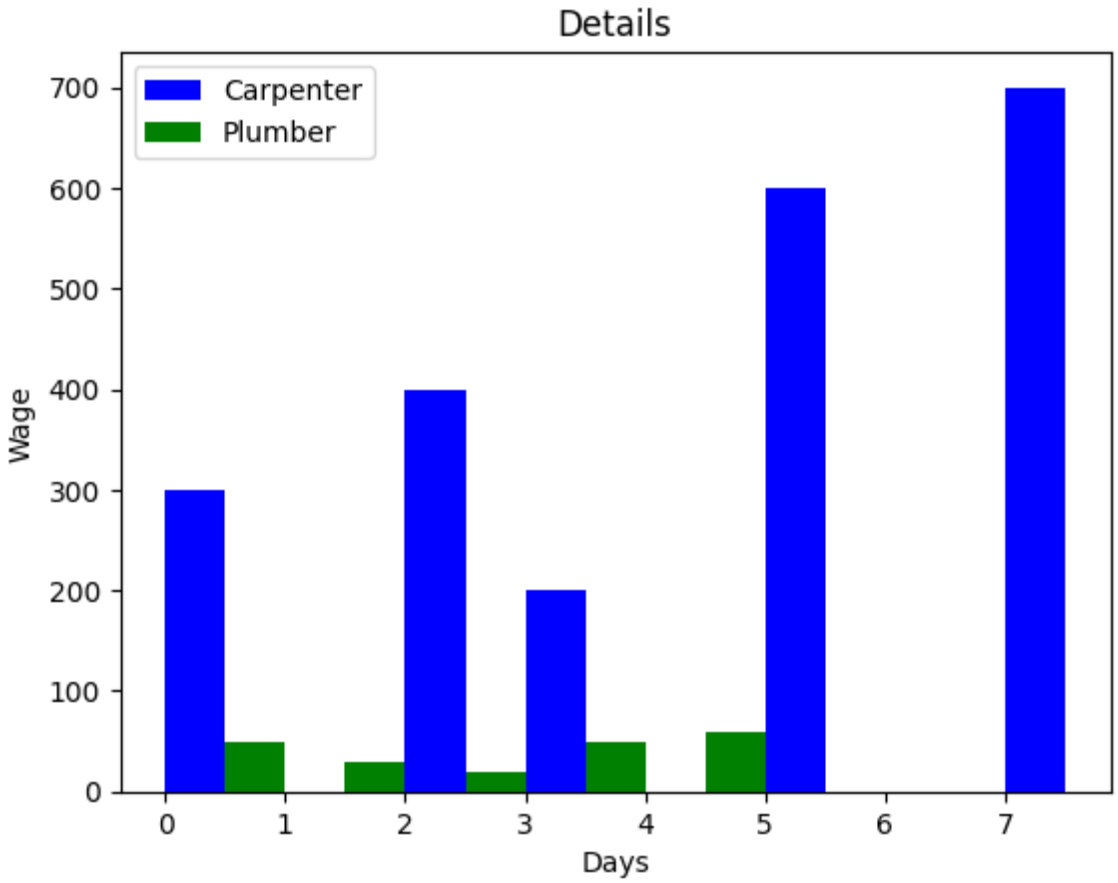
In [1]:

```
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 [2]:

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

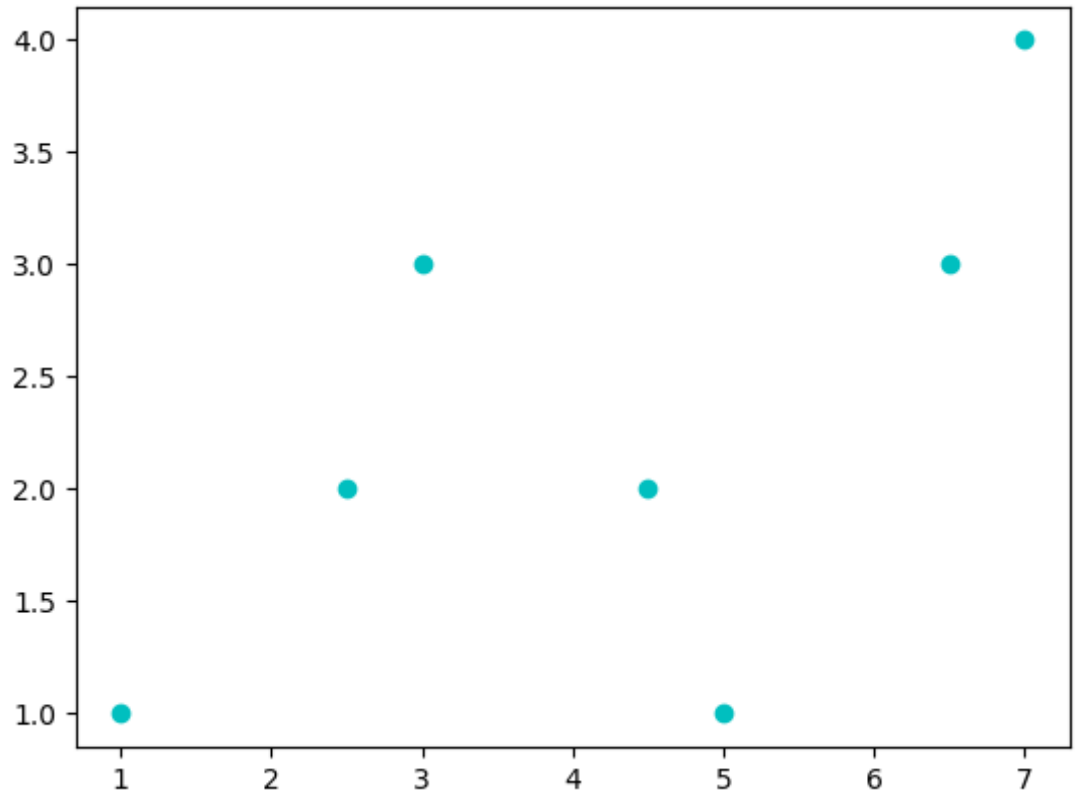


In [3]:

```
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')
```

Out[3]:

```
<matplotlib.collections.PathCollection at 0x1c52c11e0e0>
```

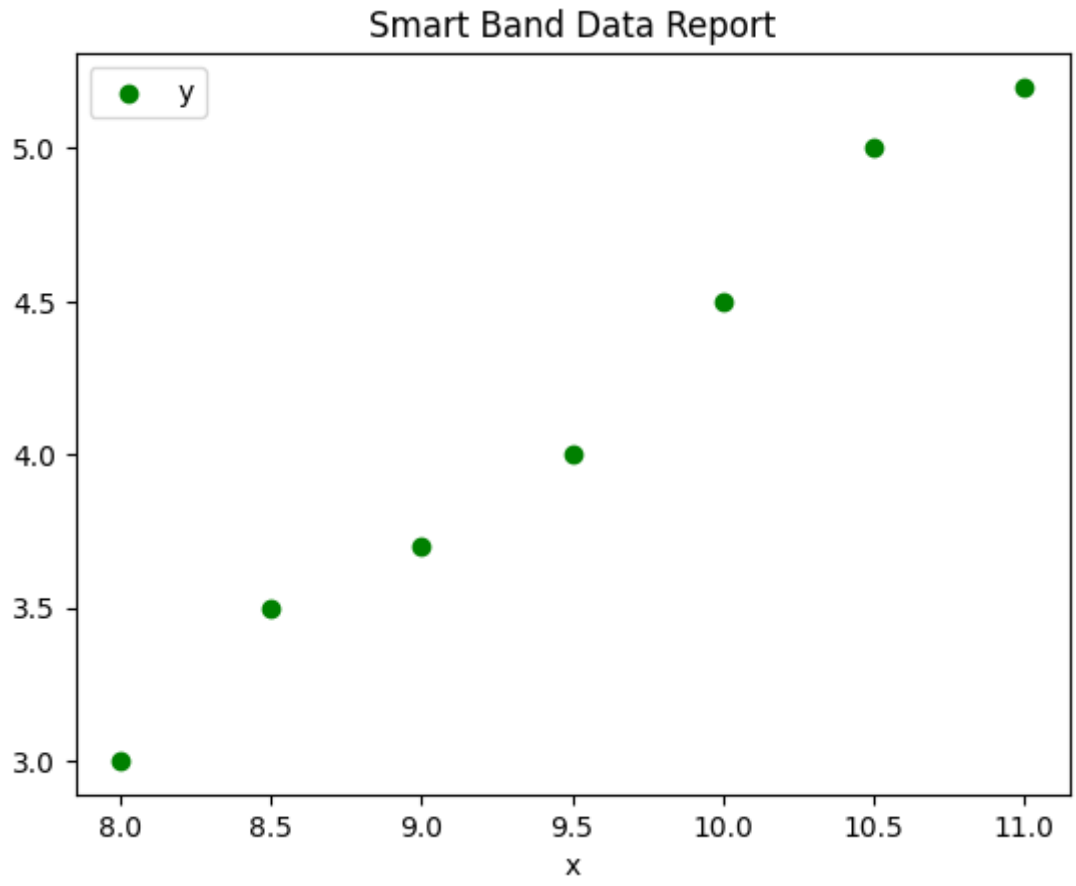


In [5]:

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

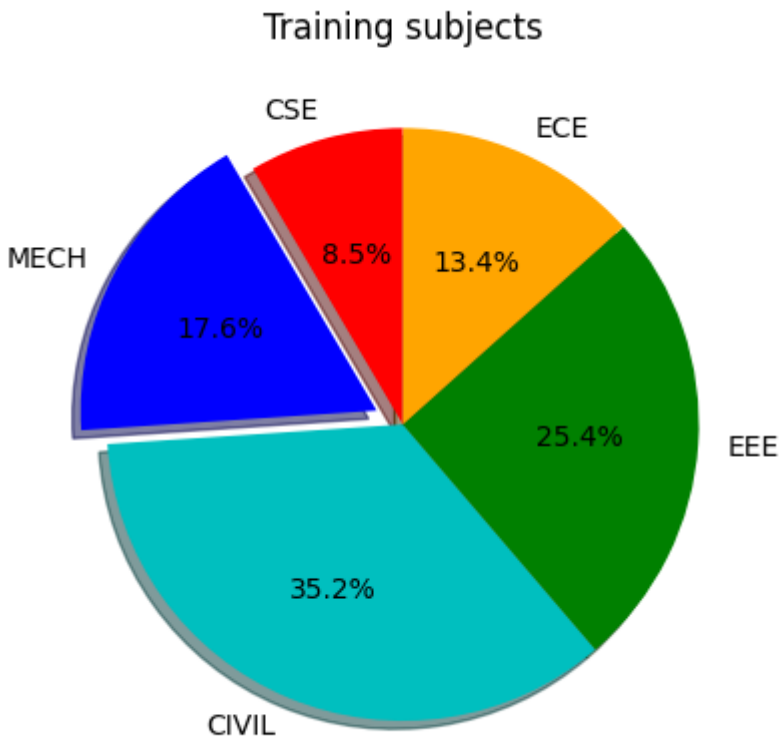
Out[5]:

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



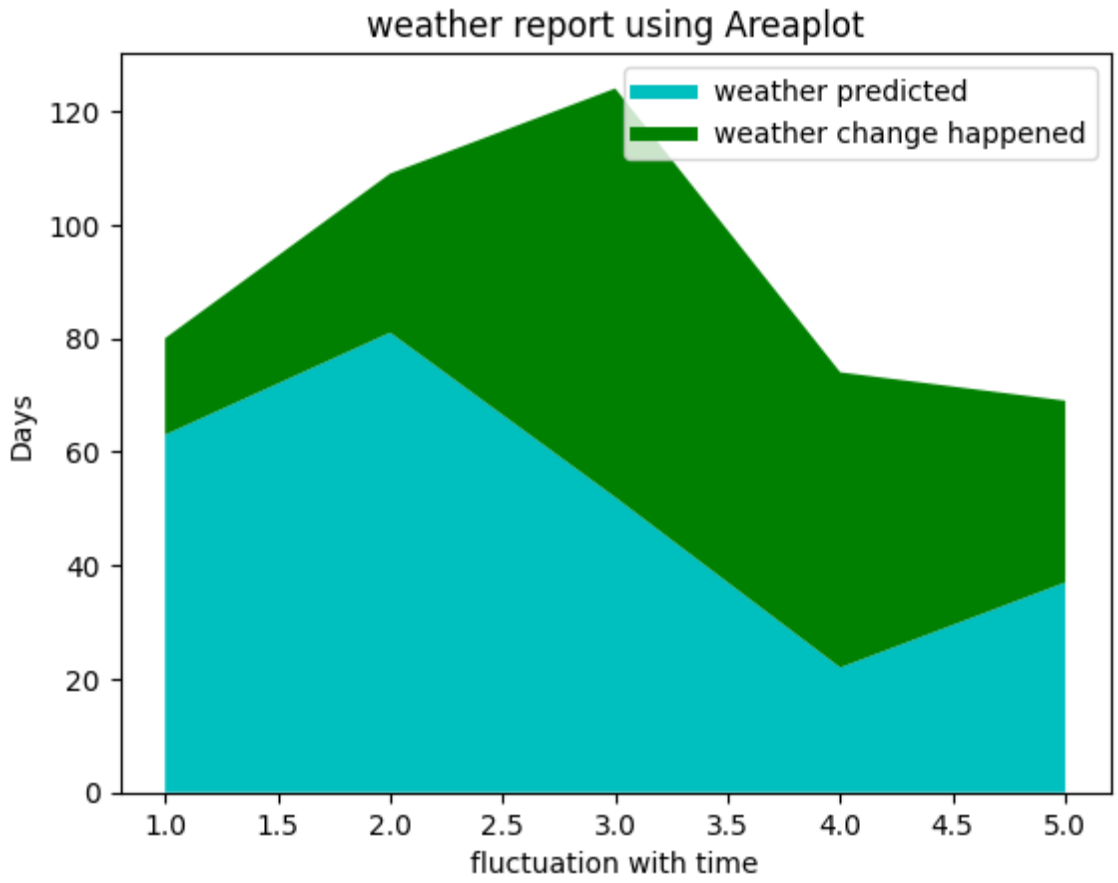
In [15]:

```
slice=[12,25,50,36,19]
activities=['CSE','MECH','CIVIL','EEE','ECE']
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()
#print the chart
```



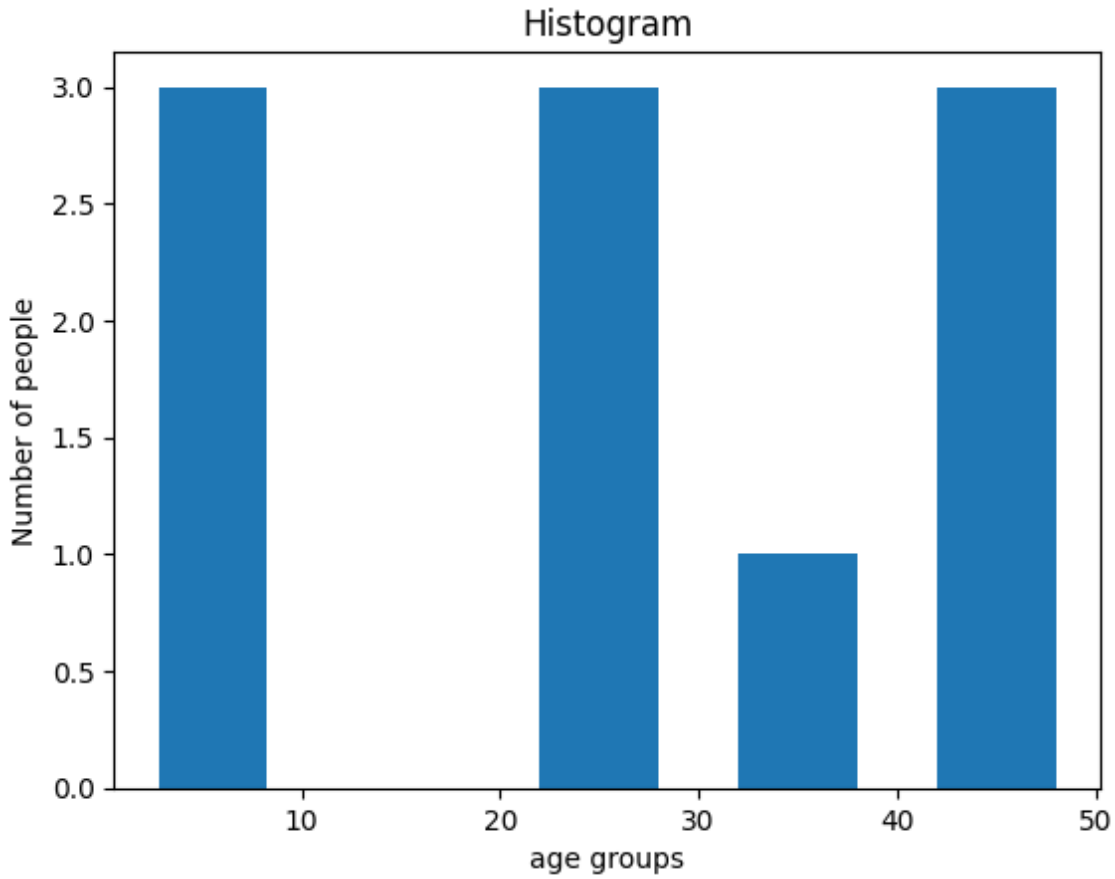
In [16]:

```
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')
pyplot.title('weather report using Areaplot')
pyplot.legend()
pyplot.show()
```



In [18]:

```
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 [ ]:

```

```