Letters we use for colors

- **b ======> blue**
- **g ======> green**
- **r ======> red**
- **y ======> yellow**
- **c ======> cyan**
- **k ======> black**
- **w ======> white**
- **m ======> magenta**

Visualisation

- matplotlib
- seaborn
- plotly
- folium
  and many more softwares

In [2]:
```
import matplotlib.pyplot as plt
#%matplotlib inline
```

In [3]:
```
name= ["a","b","c","d"]
marks =[67,88,92,41]
att= [93,67,43,21]
plt.plot(name,marks)
# plt.show()
```

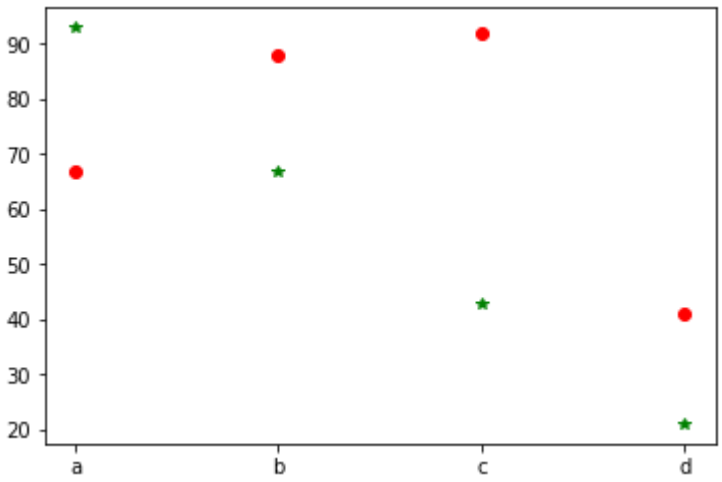
...

In [ ]:
```
plt.plot(name,marks,name,att)
plt.title("Student Details")
plt.xlabel("Name")
plt.ylabel("details")
plt.grid()
#plt.show()
```

...

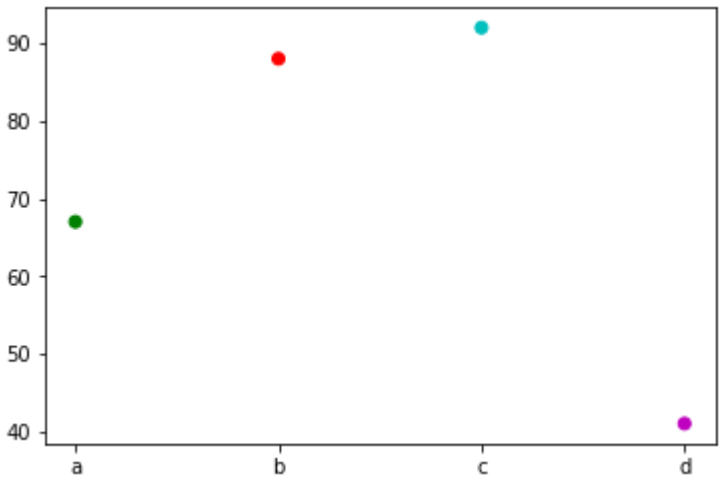
In [9]:
```
1 plt.plot(name,marks,"or",name,att,"*g")
2
```

Out[9]:
```
[<matplotlib.lines.Line2D at 0x42e13b0>,
 <matplotlib.lines.Line2D at 0x4340670>]
```



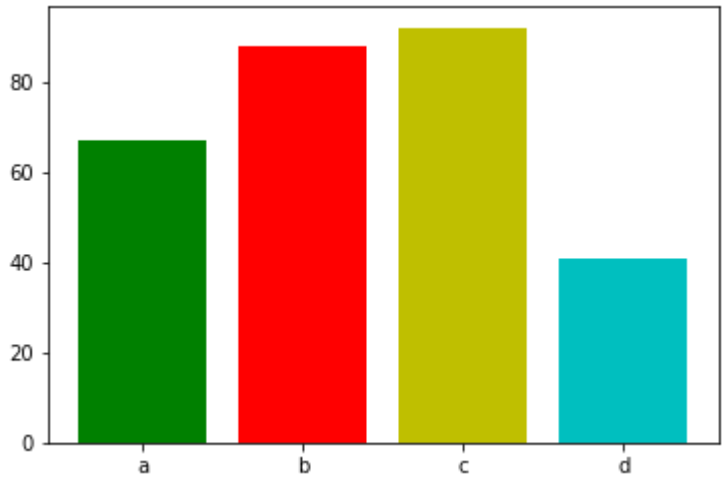
In [10]:
```
1 plt.scatter(name,marks,color="grcm")
```

Out[10]:
```
<matplotlib.collections.PathCollection at 0x4370fd0>
```



In [ ]:
```
1 plt.bar(name,marks,color="gryc")
```

Out[6]: <BarContainer object of 4 artists>



In [ ]:
```
1 plt.plot(name,marks,label = "marks")
2 plt.plot(name,att,label = "att")
3 plt.legend()
```

...

In [13]:
```
1  name= ["a","b","c","d"]
2  marks =[67,88,92,41]
3  att= [93,67,43,21]
4  plt.subplot(421)
5  plt.plot(name,marks,"*r")
6  plt.subplot(424)
7  plt.plot(name,att,"ob")
8  plt.subplot(422)
9  plt.plot(marks,att,"--m")
10 plt.subplot(423)
11 plt.plot(name,marks,"-g")
```

...

In [15]:
```
import pandas as pd
df  = pd.read_csv("marks.csv",header = None)
df
```

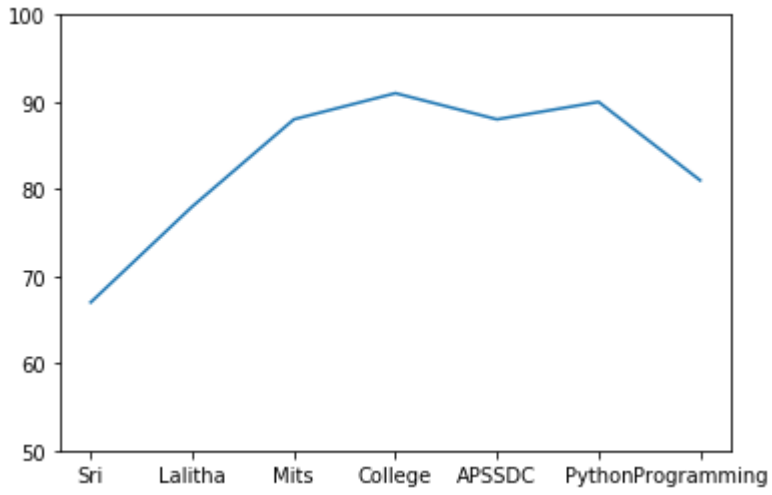
Out[15]:

	0	1	2	3
0	Sri	67	78.0	99.0
1	Lalitha	78	78.0	NaN
2	Mits	88	71.0	56.0
3	College	91	56.0	78.0
4	APSSDC	88	91.0	56.2
5	Python	90	NaN	65.0
6	Programming	81	76.0	45.0

In [16]:
```
name = df.iloc[:,0]
marks = df.iloc[:,1]
```

In [19]:
```
plt.plot(name,marks)
plt.ylim(50,100) # === to change the scale
```

Out[19]: (50, 100)



In [ ]:
```

```

In [ ]:
```

```