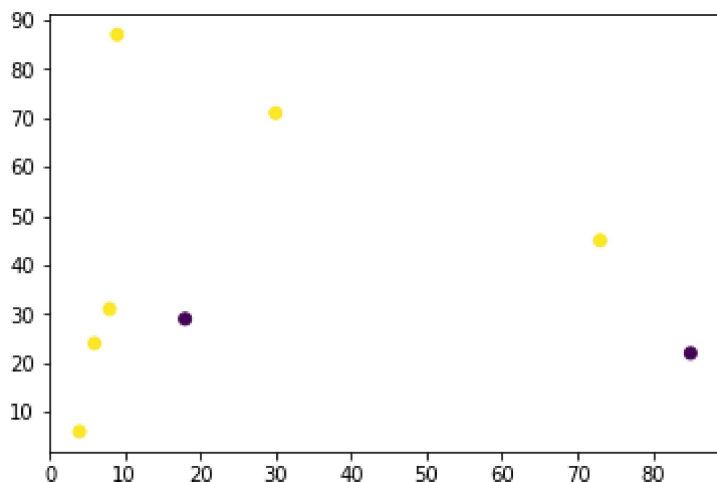


```
import matplotlib.pyplot as plt
```

```
x=[30,8,9,6,4,73,85,18]  
y=[71,31,87,24,6,45,22,29]  
c=[1, 1, 1, 1, 1, 1, 0, 0]
```

```
plt.scatter(x, y, c=c)  
plt.show()
```



```
from sklearn.neighbors import KNeighborsClassifier
```

```
data=list(zip(x,y))  
knn=KNeighborsClassifier(n_neighbors=3)
```

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```
KNeighborsClassifier(n_neighbors=3)
```

```
KNeighborsClassifier(n_neighbors=3)
```

```
KNeighborsClassifier(n_neighbors=3)
```

```
x_test=[10,30,50,70,90,100]  
y_test=[20,40,60,80,100,120]  
test_data=list(zip(x_test,y_test))
```

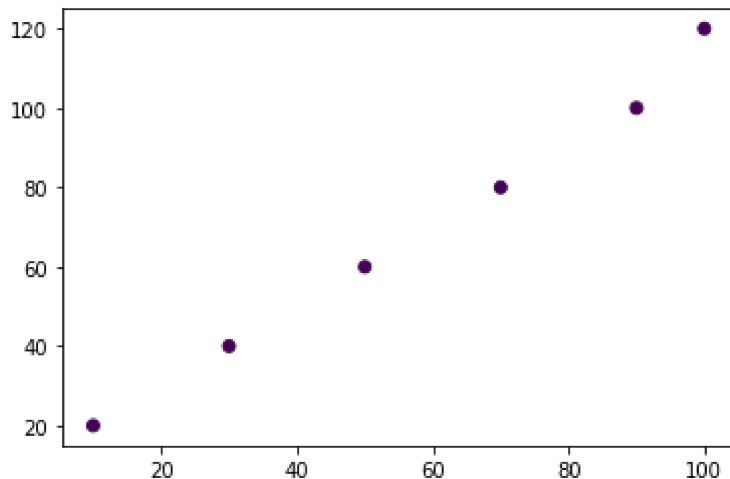
```
prediction = knn.predict(test_data)  
print(prediction)
```

```
[1 1 1 1 1 1]
```

```
[1 1 1 1 1 1]
```

```
plt.scatter(x_test,y_test,c=prediction)
```

```
<matplotlib.collections.PathCollection at 0x7f684f70aed0>
```

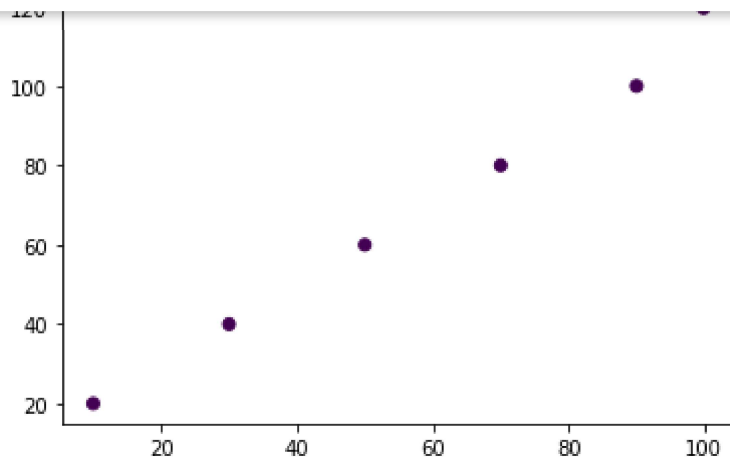


```
from sklearn.naive_bayes import GaussianNB
```

```
nb_model = GaussianNB()  
nb_mod = nb_model.fit(data,c)  
predictions = nb_mod.predict(test_data)
```

```
plt.scatter(x_test,y_test,c=predictions)
```

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