```
In [1]:
```

```
x=[5,3,7,10]
y=[1,2,8,4]
```

In [2]:

```
import numpy as np
xBar=np.mean(x)
yBar=np.mean(y)
n=len(x)
```

In [3]:

```
print(xBar)
print(yBar)
print(n)
```

6.25 3.75 4

In [4]:

```
xBarYBar = 0
for i in range(len(x)):
   xBarYBar=xBarYBar+(x[i]*y[i])
```

In [5]:

```
xBarSquare = 0
for i in range(len(x)):
   xBarSquare=xBarSquare+(x[i]*x[i])
```

In [6]:

```
print(xBarYBar)
print(xBarSquare)
```

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In [7]:

```
m=(xBarYBar-(n*xBar*yBar))/(xBarSquare-(n*xBar*xBar))
c=yBar-xBar*m
```

In [8]:

```
print(m)
print(c)
```

0.495327102804

0.654205607477

In [14]:

