In [199]:

```
import numpy as np
```

In [200]:

```
x=np.array([[1,1],[1,2],[2,2],[2,3],[2,4],[3,4],[3,5]])
y=np.array([4,6,7,8,9,10,12])
```

In [201]:

```
x1=np.mean(x)
```

In [202]:

```
y1=np.mean(y)
```

In [203]:

```
from sklearn.linear_model import LinearRegression
sc=LinearRegression()
sc.fit(x,y)
```

Out[203]:

```
LinearRegression()
```

In [204]:

```
y_pred= sc.predict(x)
```

In [207]:

```
sse=np.sum((y-y_pred)**2)
sse
```

Out[207]:

```
0.6666666666666661
```

In [208]:

```
ssr=np.sum((y_pred-np.mean(y))**2)
```

In [209]:

```
ssr
```

Out[209]:

```
41.333333333333336
```

In [210]:

```
sst=sse+ssr
sst
```

Out[210]:

```
42.0
```

In [ ]:

```

```