In [6]:
```
import numpy as np
#initializing elements of coefficient matrix to 0
y_sum, x_sum, x_y_sum, x_x_sum, i = 0, 0, 0, 0, -1
```

In [7]:
```
#genrating matrix elements for solving b0 and b1
my_data = np.genfromtxt('/home/akshay/Downloads/MAIL/Assigment_1/data
for row in my_data:
    #skipping first row which are the column names
    if(i == -1):
        i = 0
        continue
    i += 1
    y_sum += row[1]
    x_sum += row[0]
    x_y_sum += row[0] * row[1]
    x_x_sum += row[0] ** 2
```

In [8]:
```
#the coefficient matrices for solving b0 and b1
A = np.asarray([[i,x_sum],[x_sum,x_x_sum]]) #2*2
B = np.asarray([[y_sum],[x_y_sum]])
X = np.linalg.solve(A, B)
print("b0: {:.2f} , b1: {:.2f}".format(float(X[0]),float(X[1])))
```

```
b0: 4.08 , b1: -0.44
```