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# Program for curve fitting using LSE approximation in python.
X=[]
y=[]
xy=[]
x2=[]
coeff=input('Enter x values separated by space ')
x=list(map(float,coeff.split()))
coeff=input('Enter y values separated by space ')
y=list (map(float,coeff.split()))
n=len(x)
for i in range(0,n):
xy.append(x[i]*y[i])
x2.append(x[i]*x[i])
sum x=sum(x)
sum_y=sum(y)
sum xy=sum(xy)
sum_x2=sum(x2)
b = (n*sum_xy - sum_x*sum_y)/(n*sum_x2 - (sum_x*sum_x));
a = (sum_y - b*sum_x)/n;
print("Required Equation is")
print("y = \%0.4f + \%0.4fx"%(a,b))
Result:
Enter x values separated by space 0 200 300 600 900
Enter y values separated by space 100 185 215 345 459□ □0
Required Equation is
y = 102.6000 + 0.3910x
```