n = input('Enter the value of n = ');

for i=1:1:n

x(i)= input('Enter the value of x = ');

y(i)= input('Enter the value of y = ');

end

Sx = 0;

Sy = 0;

Sxx = 0;

Sxy = 0;

for i=1:1:n

Sx = Sx + x(i);

Sy = Sy + y(i);

Sxx = Sxx + x(i)\*x(i);

Sxy = Sxy + x(i)\*y(i);

end

a = (n\*Sxy-Sx\*Sy)/(n\*Sxx-Sx^2);

b = (Sy-a\*Sx)/n;

fprintf(' y= (%f)\*x + %f',a,b)

%OUTPUT

Enter the value of n = 7

Enter the value of x = 19

Enter the value of y = 76

Enter the value of x = 25

Enter the value of y = 77

Enter the value of x = 30

Enter the value of y = 79

Enter the value of x = 36

Enter the value of y = 80

Enter the value of x = 40

Enter the value of y = 82

Enter the value of x = 45

Enter the value of y = 83

Enter the value of x = 50

Enter the value of y = 85

y= (0.292350)\*x + 70.053474>>