

```
% Shriman Zunjarrao Patil  
% TYMEB209  
% B4
```

```
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>>
```