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%Name - Shriman Zunjarrao Patil
% Roll No. - TYMEB209
% Batch - B4
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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 = ');
X(i) = (x(i));
Y(i) = log(y(i));
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;
a = exp(B);
b = A;
fprintf('y = (%f)*e^((%f)*x)',a,b)
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%OUTPUT
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```
Enter the value of n = 4
Enter the value of x = 2
Enter the value of y = 25
Enter the value of x = 4
Enter the value of y = 38
Enter the value of x = 6
Enter the value of y = 56
Enter the value of x = 8
Enter the value of y = 84
y = (16.814818)*e^((0.201179)*x)
```