

```
1 commandwindow
2 clear
3 clc
4 syms x
5 format long
6 max2= input('MAXIMUM TIMES OF ITERATION')
7 p= (exp(-0.5*x)*(4-x))-2;
8 pdr= diff(p);
9 x= 0.5;
10 for i= 1:max2
11     iter(i+1)= i;
12     X(i)=x;
13     x= double(subs(x-(p/pdr)));
14     X(i+1)=x;
15     err(i+1)= abs((X(i+1)-X(i))/X(i+1))*100;
16     if err(i+1)<= 1E-21
17         break
18     end
19 end
20 Lotus= table(iter', X' , err')
21 Lotus.Properties.VariableNames= { 'IterationNumber', 'ValuesofX', 'Errors' }
```