Bisection Method – Chiranjeev Kashyap

```
Input Interval: 1 3
Ite      a               b               m               f(m)            error
0        1.000000        3.000000        2.000000        -10.000000      ----
1        2.000000        3.000000        2.500000        -2.375000       0.500000
2        2.500000        3.000000        2.750000        2.796875        0.250000
3        2.500000        2.750000        2.625000        0.087891        0.125000
4        2.500000        2.625000        2.562500        -1.173584       0.062500
5        2.562500        2.625000        2.593750        -0.550446       0.031250
6        2.593750        2.625000        2.609375        -0.233189       0.015625
7        2.609375        2.625000        2.617188        -0.073128       0.007813
8        2.617188        2.625000        2.621094        0.007261        0.003906
9        2.617188        2.621094        2.619141        -0.032963       0.001953
10       2.619141        2.621094        2.620117        -0.012859       0.000977
11       2.620117        2.621094        2.620605        -0.002802       0.000488
12       2.620605        2.621094        2.620850        0.002230        0.000244
13       2.620605        2.620850        2.620728        -0.000286       0.000122
14       2.620728        2.620850        2.620789        0.000973        0.000061
15       2.620728        2.620789        2.620758        0.000343        0.000031
Approximate Root is 2.620758
Process returned 0 (0x0)   execution time : 5.174 s
Press any key to continue.
```

Regula Falsi Method – Chiranjeev Kashyap

```
Input Interval: 1 3
Ite      a                b                c                f(c)             error
0        1.000000         3.000000         2.307692         -5.710514        ----
1        2.307692         3.000000         2.576441         -0.897459        0.268749
2        2.576441         3.000000         2.614847         -0.121172        0.038406
3        2.614847         3.000000         2.619964         -0.016010        0.005117
4        2.619964         3.000000         2.620639         -0.002108        0.000675
5        2.620639         3.000000         2.620728         -0.000275        0.000089
6        2.620728         3.000000         2.620739         -0.000040        0.000011
Root is 2.620739

Process returned 0 (0x0)    execution time : 2.943 s
Press any key to continue.
```

Type here to search

Newton Raphson Method – Chiranjeev Kashyap

```
C:\Users\chira\Desktop\CBNT\raphson.exe
Input the approximation : 2
Ite      X0                X1                Error             Order
 1       2.000000          2.833333          0.833333          -----
 2       2.833333          2.636294          0.197040          8.909258
 3       2.636294          2.620833          0.015461          2.566843
Root is 2.620833
Process returned 0 (0x0)    execution time : 2.189 s
Press any key to continue.
```

Type here to search