

## unit2\midterm\_code2.c

```
1  #include <stdio.h>
2
3  // c function to take an integer number and calculate it's square root?
4  float squareroot(float n);
5
6
7  void main(void)
8  {
9      int num;
10     printf("enter a number: ");
11     scanf("%d",&num);
12     printf("\n square root of %d is %f",num,squareroot(num));
13 }
14 float squareroot(float n){
15     if (n<=2)
16     return n;
17     else{
18         float x,y;
19         x=n;
20         y=(x + (n/x))/2;
21
22         while (((x-y)>=0.001)||((x-y)<=-0.001)){
23             x=y;
24             y=(x + (n/x))/2;
25         }
26         return y;
27     }
28 }
```