

```
1 //3. Write a C program to find power of any number using recursive function.
2
3 #include<stdio.h>
4 int power(b,e){
5     int base, exponent;
6     if(e==0)
7         return 1;
8     else if (e>0){
9         return (base * power(base, exponent-1));
10    }
11    else if (e<0){
12        return (1 / power(base, -exponent));
13    }
14 }
15
16 int main(){
17     int base,exponent,result;
18
19     printf("Enter number : ");
20     scanf("%d",&base);
21
22     printf("Enter exponent : ");
23     scanf("%d",&exponent);
24
25     result = power(base,exponent);
26
27     printf("\nThe power of %d to the power %d is %d: ",base,exponent,result);
28
29     return 0;
30 }
```