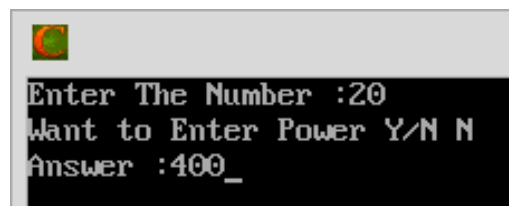


## Aim: To write a user defined function to calculate the root of a number

### Source Code:

```
//page 368 question 7
#include<iostream.h>
#include<conio.h>
int power(int p,int q);
void main()
{
    clrscr();
    int m,n,l;
    char choice;
    cout<<"Enter The Number :";
    cin>>m;
    cout<<"Want to Enter Power Y/N ";
    cin>>choice;
    if (choice=='Y')
    {
        cout<<"Enter the Power :";
        cin>>n;
        l=power(m,n);
    }
    if (choice=='N')
    {
        n=2;
        l=power(m,n);
    }
    cout<<"Answer :"<<l;
    getch();
}
int power(int p,int q)
{
    int square_temp=1;
    for(int i=0;i<q;i++)
    {
        square_temp*=p;
    }
    return(square_temp);
}
```

### Output:

A screenshot of a terminal window with a black background and white text. The text shows the execution of a C++ program. It starts with a prompt 'Enter The Number :20', followed by 'Want to Enter Power Y/N N', and finally 'Answer :400\_'. There is a small icon in the top left corner of the terminal window.

```
Enter The Number :20
Want to Enter Power Y/N N
Answer :400_
```