

```
#include <iostream>
#include <math.h>
using namespace std;
//function declaration
double Power(double base, int exponent);
int main(){
    double base, power;
    int exponent;
    // Inputting base and exponent from
    user
    cout<<"Enter base: ";
    cin>>base;
    cout<<"Enter exponent: ";
    cin>>exponent;
    // Call Power function
    power = Power(base, exponent);
    //printf("%.2lf ^ %d = %f", base,
    exponent, power);
```

```
    cout<<base<< " ^ "<<exponent<<" =  
    "<<power;  
    return 0;  
}  
/*
```

Calculating power of any number.

Returns base ^ exponent

*/

```
double Power(double base, int  
exponent){  
    // Base condition  
    if(exponent == 0)  
        return 1;  
    else if(exponent > 0)  
        return base * pow(base, exponent -  
1);  
    else  
        return 1 / pow(base, - exponent);
```

}

