

**Practical 6: Write a C++ program to implement function overloading in order to compute power(m,n) where**

- i) m is double and n is int**
- ii) m and n are int.**

```
#include<iostream>

#include<math.h>

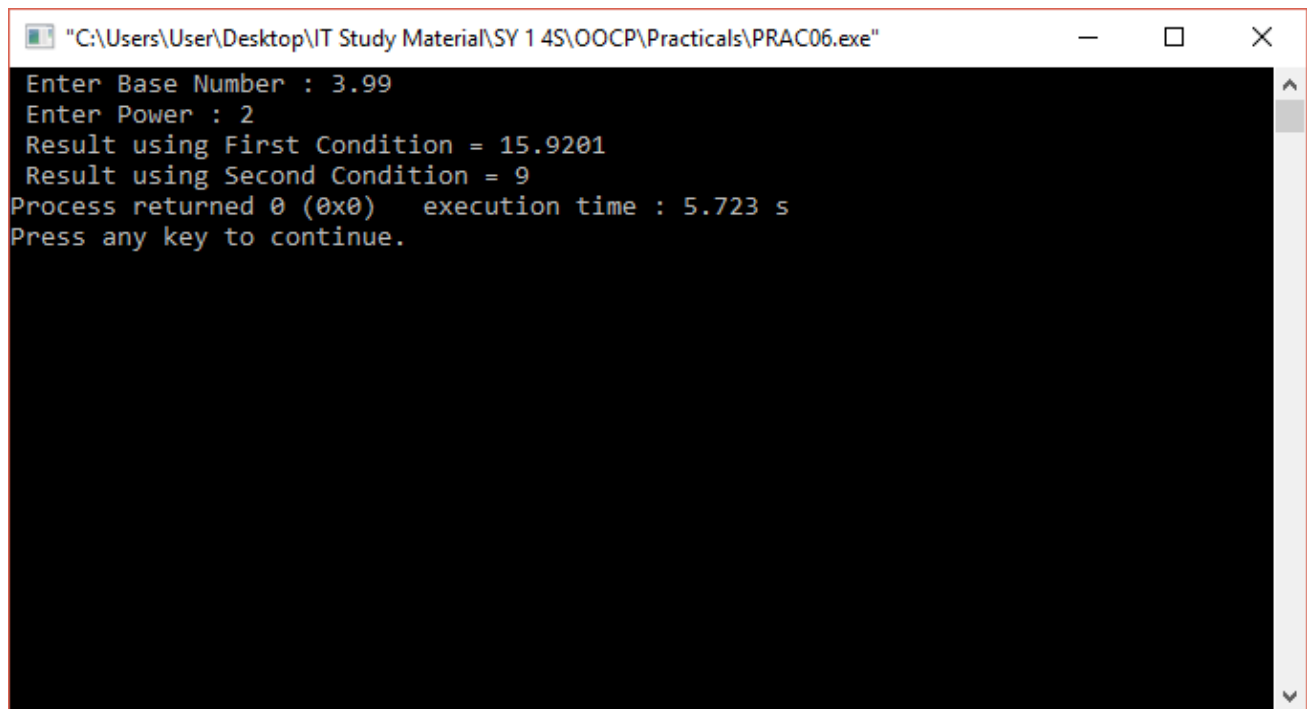
using namespace std;

int power(int m,int n)
{   return(pow(m,n));   }

double power(double m,int n)
{   return(pow(m,n));   }

int main()
{   double x;
    int y;
    cout<<" Enter Base Number : ";
    cin>>x;
    cout<<" Enter Power : ";
    cin>>y;
    cout<<" Result using First Condition = "<<power(x,y);
    cout<<"\n Result using Second Condition = "<<power((int)x,y);
    return 0;
}
```

## Output: 6

A screenshot of a Windows command prompt window. The title bar at the top reads '"C:\Users\User\Desktop\IT Study Material\SY 1 4S\OOCp\Practicals\PRAC06.exe"'. The window has standard minimize, maximize, and close buttons. The command prompt area is black with white text. The text displayed is: 'Enter Base Number : 3.99', 'Enter Power : 2', 'Result using First Condition = 15.9201', 'Result using Second Condition = 9', 'Process returned 0 (0x0) execution time : 5.723 s', and 'Press any key to continue.'. A vertical scrollbar is visible on the right side of the command prompt area.

```
"C:\Users\User\Desktop\IT Study Material\SY 1 4S\OOCp\Practicals\PRAC06.exe"
Enter Base Number : 3.99
Enter Power : 2
Result using First Condition = 15.9201
Result using Second Condition = 9
Process returned 0 (0x0) execution time : 5.723 s
Press any key to continue.
```