

# Central University of Haryana

School of Engineering and Technology  
Department of Computer Science Engineering



## Object Oriented Programming using C++ Lab Assignment - 03

Submitted by

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Course :- **OOPS Lab**

Course Code :- **BT CS 405**

Submitted to

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## Assignment - 03

### a) Problem statement:

Write a program to show that the effect of default arguments can be alternatively achieved by overloading.

### b) Code:

```
#include<iostream>
#include <cmath>
using namespace std;
float power(double m, double n){
    float result;
    result = pow(m,n);
    return result;
}
float power(float base, int a=2){
    float result;
    result = pow(base,a);
    return result;
}
void display(int data){
    cout<<data;
}
int main(){
    double baseValue, powerValue;
    float result, result1;

    cout<<" Enter the base value : ";
    cin>>baseValue;
    cout<<" Enter the power value : ";
    cin>>powerValue;

    result = power(baseValue, powerValue);
    result1 = power(baseValue);
    cout<<"\n";

    cout<<"power value using normal function: ";
    display(result);
    cout<<"\n\n";
    cout<<"power value using overloaded function with default arguments: ";
```

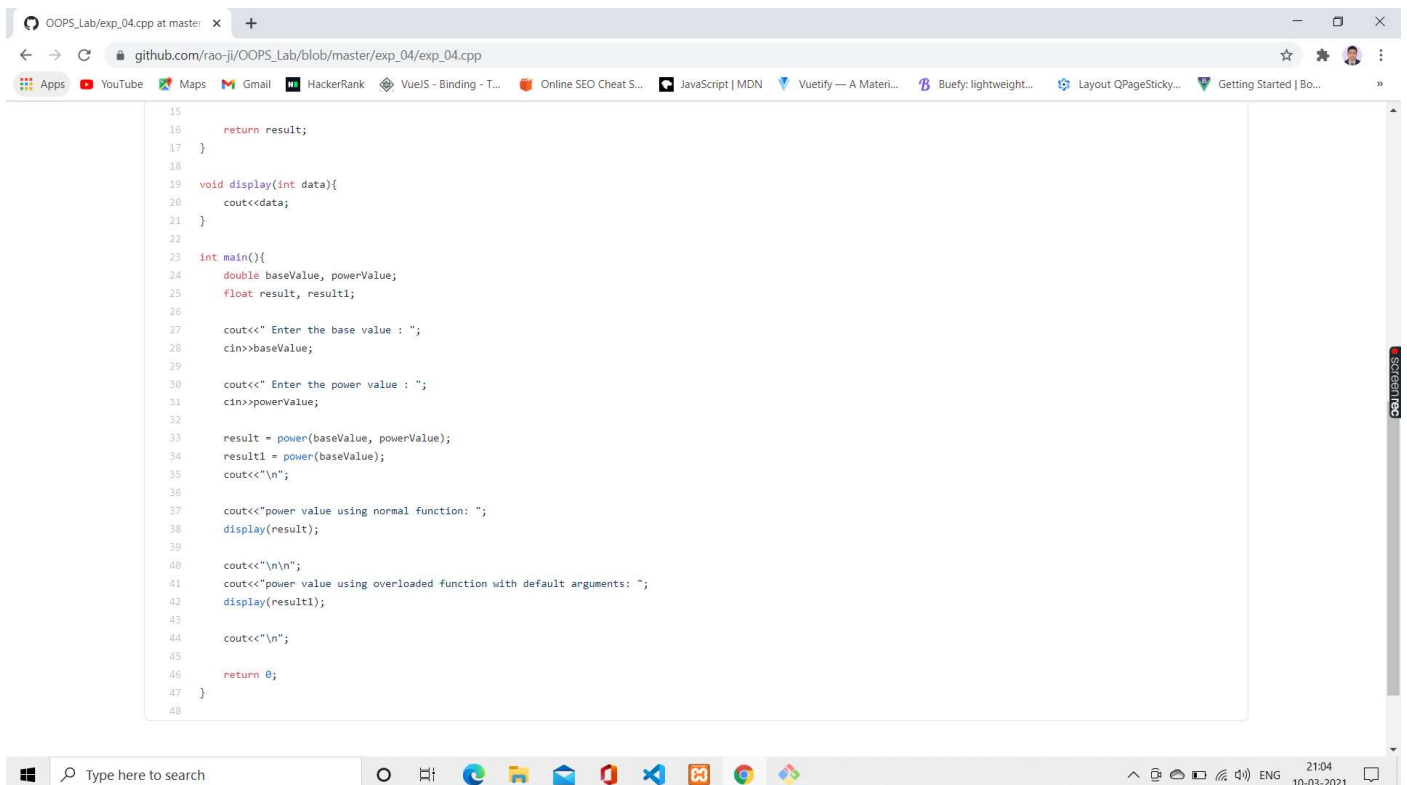
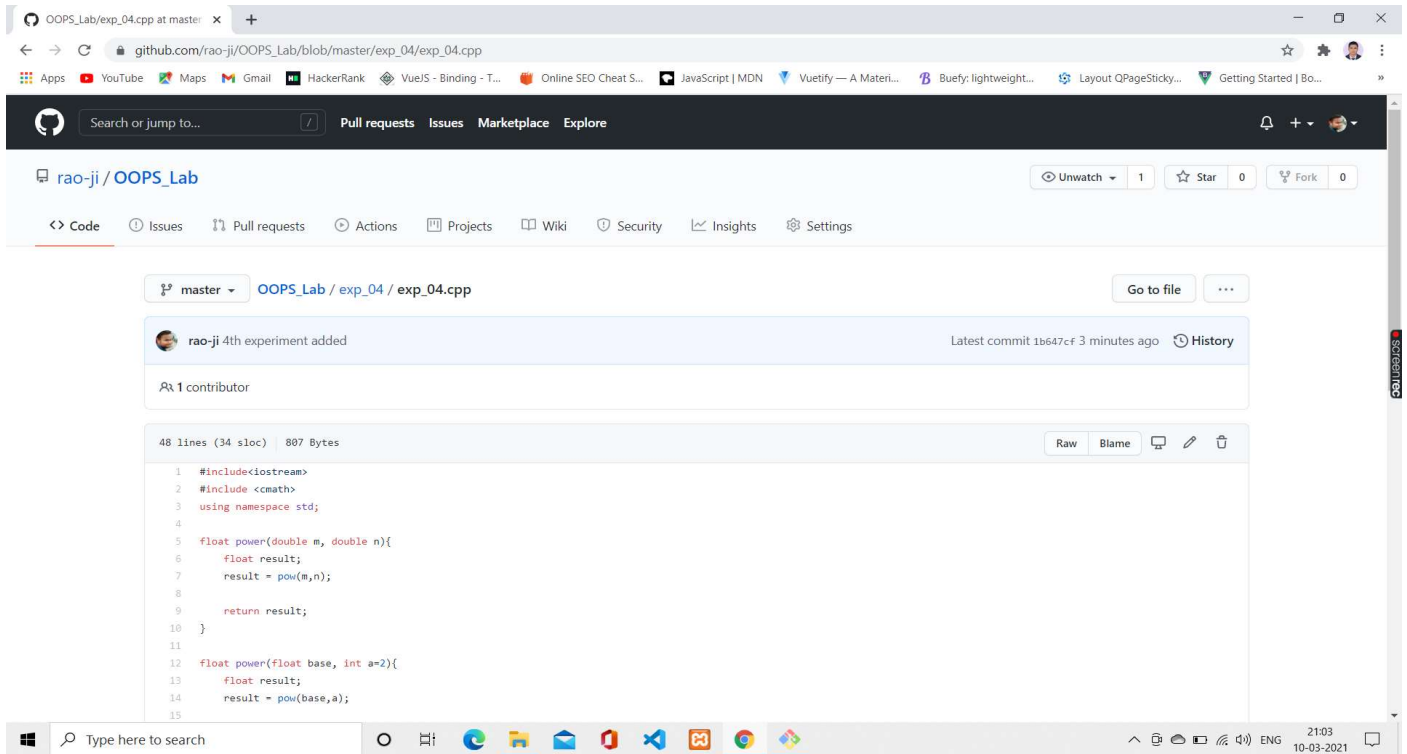
```

display(result1);
cout<<"\n";

return 0;
}

```

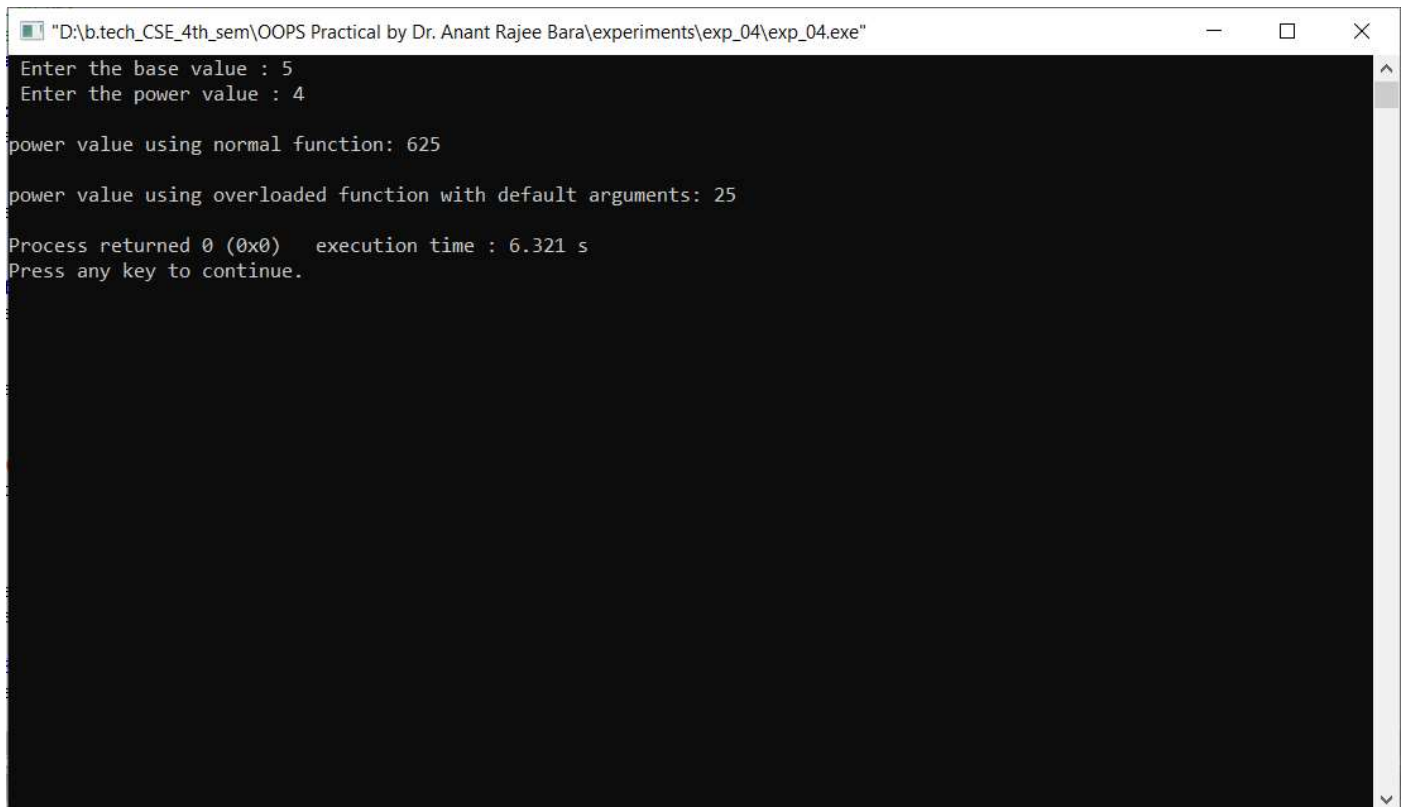
## Screenshot of code after uploading on Github:



## Link of Github Repository:

[https://github.com/rao-ji/OOPS\\_Lab/blob/master/exp\\_04/exp\\_04.cpp](https://github.com/rao-ji/OOPS_Lab/blob/master/exp_04/exp_04.cpp)

### c) Output :



```
"D:\b.tech_CSE_4th_sem\OOPS Practical by Dr. Anant Rajee Bara\experiments\exp_04\exp_04.exe"
Enter the base value : 5
Enter the power value : 4

power value using normal function: 625

power value using overloaded function with default arguments: 25

Process returned 0 (0x0)   execution time : 6.321 s
Press any key to continue.
```