CENTRAL UNIVERSITY OF HARYANA

Department of Computer Science & Engineering under SOET

C++ Programming Lab

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

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Program - 1: Write a program to show that the effect of default arguments can be alternatively achieved by overloading.

Code:

Abhishek-Rao-191882 / OOPS_Lab

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Abhishek-Rao-191882 4th experiment added — Latest commit 1b647cf yesterday | History

1 contributor

48 lines (34 sloc) | 807 Bytes | Raw | Blame

```cpp
#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;
}
```

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.
```