

Function Overloading

Input:

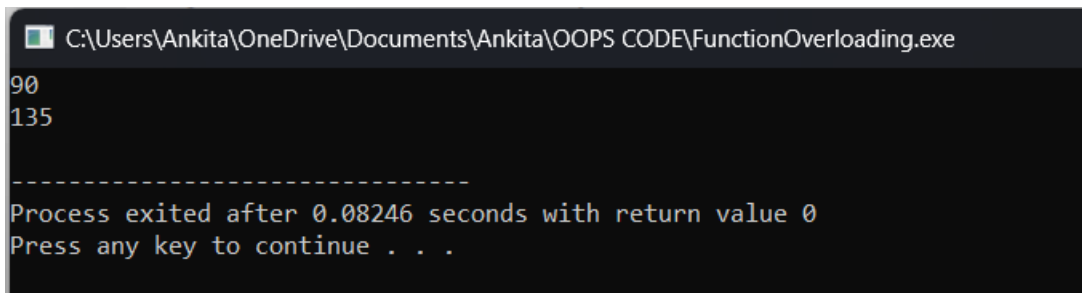
```
#include<iostream>

using namespace std;

class cal{
    public:
        int add(int a, int b)
        {
            return a+b;
        }
        int add(int a, int b, int c)
        {
            return a+b+c;
        }
};

int main(){
    cal c;
    cout<<c.add(30, 60)<<endl;
    cout<<c.add(45, 80, 10)<<endl;
    return 0;
}
```

Output:



```
C:\Users\Ankita\OneDrive\Documents\Ankita\OOPS CODE\FunctionOverloading.exe
90
135
-----
Process exited after 0.08246 seconds with return value 0
Press any key to continue . . .
```

Default Constructor

Input:

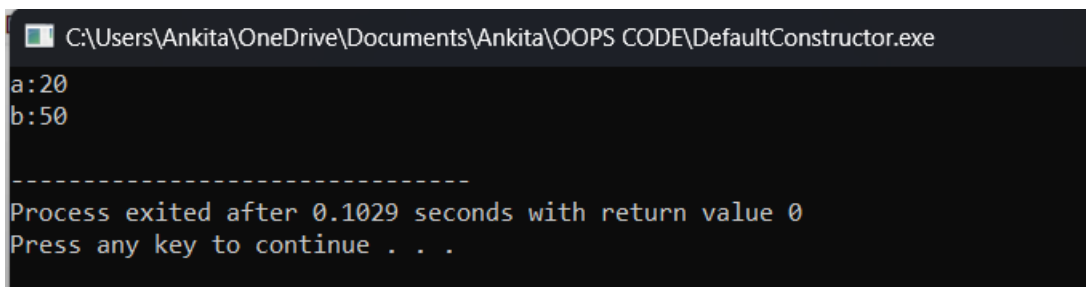
```
#include<iostream>

using namespace std;

class construct
{
    public:
        int a, b;
        construct()
        {
            a = 20;
            b = 50;
        }
};

int main()
{
    construct c;
    cout<<"a:"<<c.a<<endl<<"b:"<<c.b<<endl;
    return 0;
}
```

Output:

A screenshot of a Windows command prompt window. The title bar shows the file path: C:\Users\Ankita\OneDrive\Documents\Ankita\OOPS CODE\DefaultConstructor.exe. The window content shows the output of the program: 'a:20' on the first line and 'b:50' on the second line. Below these, there is a dashed line followed by the text 'Process exited after 0.1029 seconds with return value 0' and 'Press any key to continue . . .'.

```
C:\Users\Ankita\OneDrive\Documents\Ankita\OOPS CODE\DefaultConstructor.exe
a:20
b:50

-----
Process exited after 0.1029 seconds with return value 0
Press any key to continue . . .
```

Parameterized Constructor

Input:

```
#include<iostream>

using namespace std;

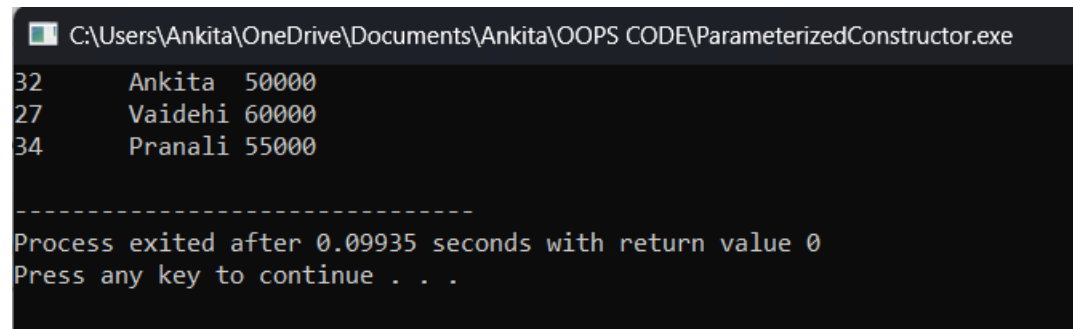
class emp
{
    public:
        string name;
        int id;
        float salary;
        emp(int i, string n, float s)
        {
            id = i;
            name = n;
            salary = s;
        }
        void display()
        {
            cout<<id<<"\t"<<name<<"\t"<<salary<<"\t"<<endl;
        }
};

int main()
{
    emp e1 = emp(32, "Ankita", 50000);
    emp e2 = emp(27, "Vaidehi", 60000);
    emp e3 = emp(34, "Pranali", 55000);

    e1.display();
    e2.display();
```

```
        e3.display();  
    }
```

Output:



```
C:\Users\Ankita\OneDrive\Documents\Ankita\OOPS CODE\ParameterizedConstructor.exe  
32    Ankita  50000  
27    Vaidehi 60000  
34    Pranali 55000  
  
-----  
Process exited after 0.09935 seconds with return value 0  
Press any key to continue . . .
```

Copy Constructor

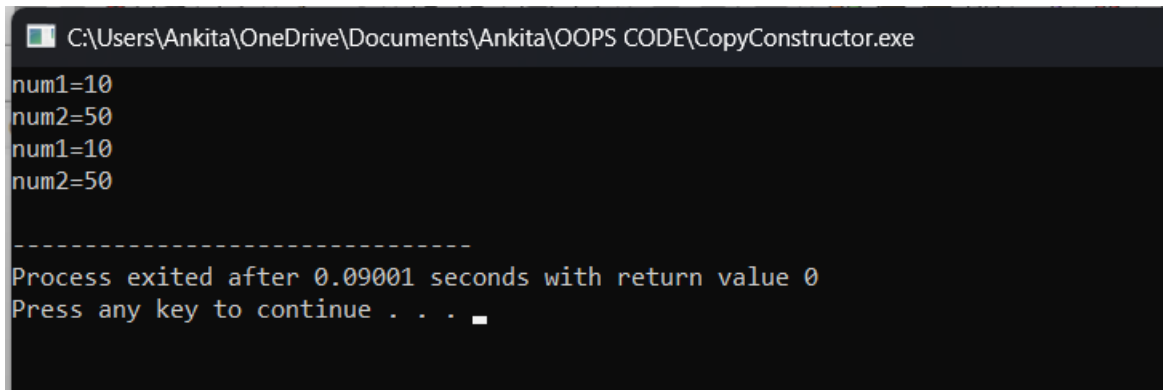
Input:

```
#include<iostream>  
  
using namespace std;  
  
class demo  
{  
  
    private:  
  
        int num1, num2;  
  
    public:  
  
        demo(int n1, int n2)  
        {  
  
            num1 = n1;  
            num2 = n2;  
  
        }  
  
        void display()  
        {
```

```
        cout<<"num1="<<num1<<endl;
        cout<<"num2="<<num2<<endl;
    }
};

int main()
{
    demo ob1(10, 50);
    demo ob2 = ob1;
    ob1.display();
    ob2.display();
    return 0;
}
```

Output:



```
C:\Users\Ankita\OneDrive\Documents\Ankita\OOPS CODE\CopyConstructor.exe
num1=10
num2=50
num1=10
num2=50

-----
Process exited after 0.09001 seconds with return value 0
Press any key to continue . . .
```