Function Overloading

Input:

```cpp
#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;

}
```
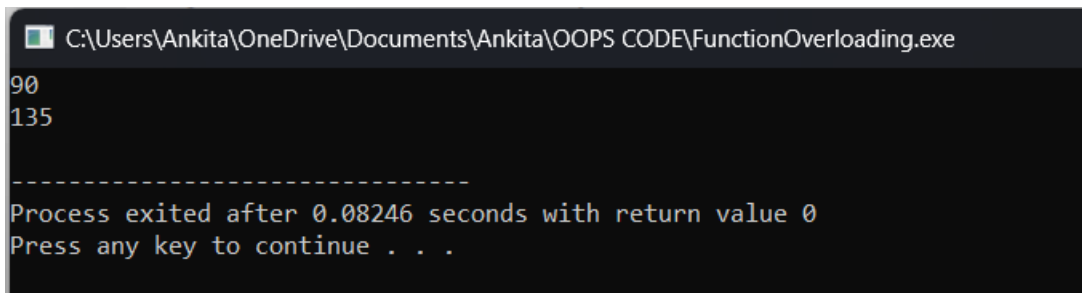
Output:

```
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:

```cpp
#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;
}
```
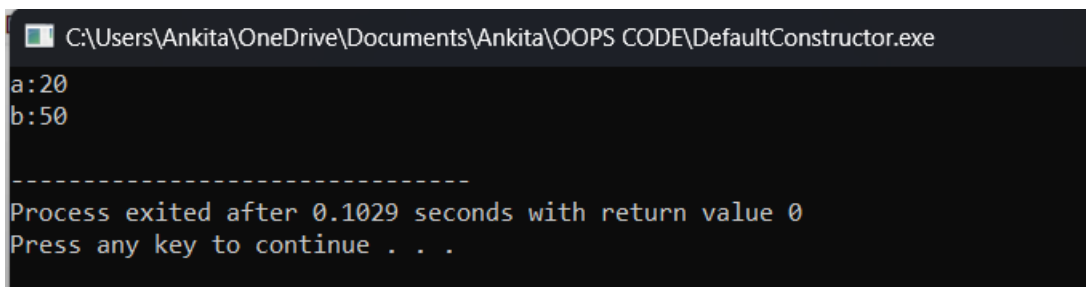
Output:

```
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:

```cpp
#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();
```
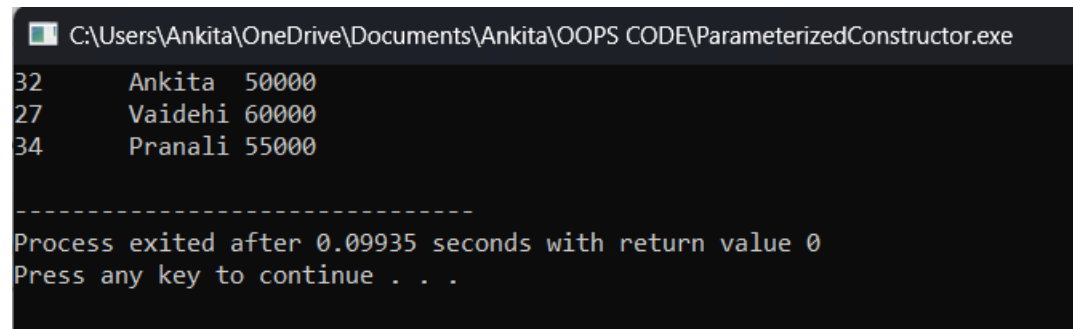
```
        e3.display();

}
```

Output:

Copy Constructor

Input:

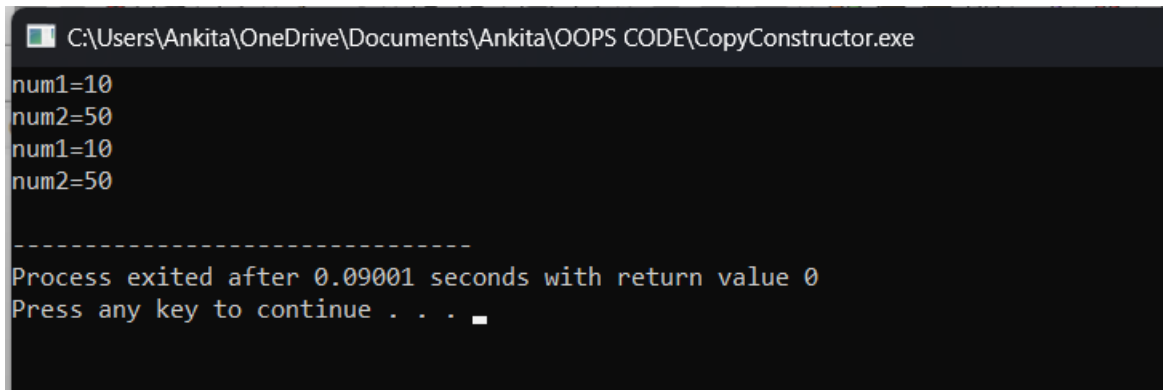```
#include<iostream>

using namespace std;

class demo

{
        private:
                int num1, num2;
        public:
                demo(int n1, int n2)
                {
                        num1 = n1;
                        num2 = n2;
                }
                void display()
                {
```

```cpp
                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 . . .
```