

OBJECT ORIENTED PROGRAMMING WITH C++.

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LAB ASSIGNMENT-1

1. CPP Program to find greatest among three positive integer with an implementation of parameterized and copy constructors.

C++ Program:

```
#include<iostream>
using namespace std;
class Data
{
    int i,j;
public:
    int k;
    Data(int a,int b,int c) //Parameterized constructor
    {
        cout<<"\nUsing Parameterized Constructor:";
        if(a>b && a>c)
        {
            cout<<"Largest number is:"<<a;
            i=a;
        }
        else if(b>a && b>c)
        {
            cout<<"Largest number is:"<<b;
            j=b;
        }
        else
        {
            cout<<"Largest number is:"<<c;
            k=c;
        }
    }
    Data(Data &a) //Copy Constructor
    {
        cout<<"\nUsing Copy Constructor:";
        i=a.i;
        j=a.j;
        k=a.k;
    }
    void display()
    {
        cout<<i<<j<<k;
    }
};
```

```

int main()
{
    int x,y,z;
    cout<<"\nEnter 1st number:";
    cin>>x;
    cout<<"\nEnter 2nd number:";
    cin>>y;
    cout<<"\nEnter 3rd number:";
    cin>>z;
    Data d1(x,y,z),d2(d1);
    d1.display();
    d2.display();
    return 0;
}

```

OUTPUT:

```

Enter 1st number:100
Enter 2nd number:200
Enter 3rd number:300

Using Parameterized Constructor:Largest number is:300
Using Copy Constructor:0030000300
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Process exited after 6.182 seconds with return value 0
Press any key to continue . . .

```

*****END*****