

C++ Lab Assessment – 02

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Qn. No:2

C++ Program:

```
#include<iostream>
using namespace std;
class test
{
public:
    test()
    {
        cout<<endl;
    }
    find(int a,int b,int c)
    {
        cout<<"1st find method(): "<<endl;
        if(a>b)
        {
            if(a>c)
            {
                cout<<a<<" is Greater then "<<b<<" "<<c<<endl;
            }
            else
            {
                cout<<cout<<c<<" is Greater then "<<a<<"&"<<b<<endl;
            }
        }
        else
        {
            if(b>c)
            {
                cout<<b<<" is Greater then "<<a<<"&"<<c<<endl;
            }
            else
            {
                cout<<c<<" is Greater then "<<a<<"&"<<b<<endl;
            }
        }
    }

    find(int n)
    {
        if(n == 0)
            return 1;

        int i = n, fact = 1;
        while (n / i != n)
```

```

        while (n / i != n)
        {
            fact = fact * i;
            i--;
        }
        cout<<"\n2nd find () Factorial method\n";
        cout<<"Factorial of "<<n<<" is "<<fact<<endl;
    }
    find(int x,int y)
    {
        cout<<"\n3rd find() for odd or even\n";
        for(int i=x;i<=y;i++)
        {
            if(i%2==0)
            {
                cout<<i<<" is a Even number "<<endl;
            }
            else
            {
                cout<<i<<" is a Odd number "<<endl;
            }
        }
    }
};

int main()
{
    int m,d,r,o,n,s;
    test t1;
    cout<<"Enter three numbers to find Greatest Value among them:\n";
    cin>>m;cin>>d;cin>>r;
    t1.find(m,d,r);
    cout<<"\n Enter no. you wish to find factorial: ";
    cin>>o;
    t1.find(o);
    cout<<"\nEnter the number to find even and odd no:\n";
    cin>>n>>s;
    t1.find(n,s);
    return 0;
}

```

Output:

```
Enter three numbers to find Greatest Value among them:
```

```
10
```

```
35
```

```
45
```

```
1st find method():
```

```
45 is Greater then 10&35
```

```
Enter no. you wish to find factorial: 5
```

```
2nd find () Factorial method
```

```
Factorial of 5 is 120
```

```
Enter the number to find even and odd no:
```

```
5
```

```
5
```

```
3rd find() for odd or even
```

```
5 is a Odd number
```

```
-----
```

```
Process exited after 18.71 seconds with return value 0
```

```
Press any key to continue . . .
```