

# OOP with C++

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## Lab work - 01

**Lab Date - 18th Jan 2021**

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**Semester - 4th**

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### 1) Write a Hello World Program

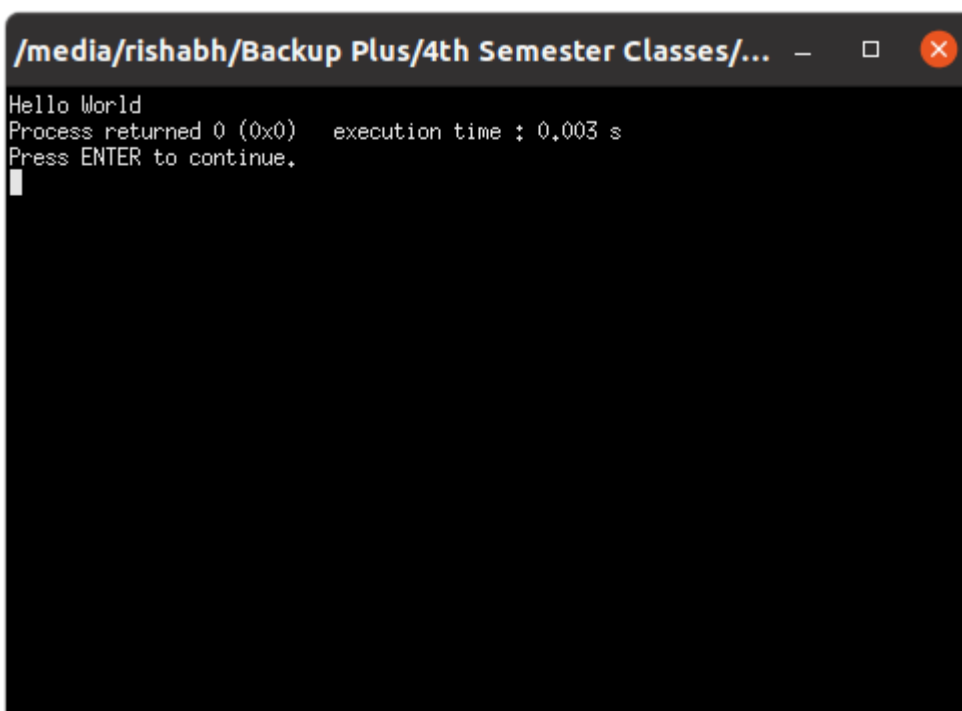
#### **Source Code**

```
#include <iostream>

int main(){

    std::cout << "Hello World";
    return 0;
}
```

#### **Output**

A screenshot of a terminal window with a dark background. The window title bar shows the path "/media/rishabh/Backup Plus/4th Semester Classes/..." and standard window controls. The terminal output displays "Hello World" on the first line, followed by "Process returned 0 (0x0) execution time : 0.003 s" and "Press ENTER to continue." on the second line. A white cursor is visible on the third line.

```
/media/rishabh/Backup Plus/4th Semester Classes/... - □ ×
Hello World
Process returned 0 (0x0) execution time : 0.003 s
Press ENTER to continue.
█
```

## 2) Use of comment

### Source Code

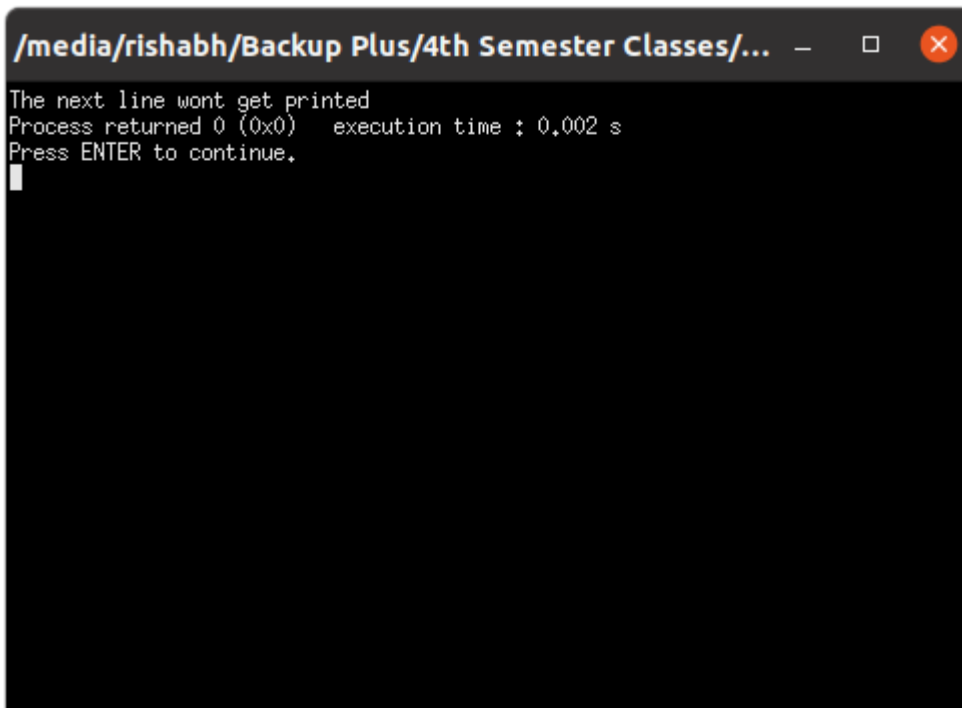
```
#include <iostream>

int main(){

    std::cout << "The next line wont get printed";
    //std::cout << "This line wont get printed";
    return 0;

}
```

### Output



```
/media/rishabh/Backup Plus/4th Semester Classes/...  -  □  ×
The next line wont get printed
Process returned 0 (0x0)   execution time : 0.002 s
Press ENTER to continue.
█
```

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## 3) To use namespace std

### Source Code

```
#include <iostream>

using namespace std;

namespace One
{

    int x = 5;
```

```
void printX(){
    cout<<x<<endl;
}

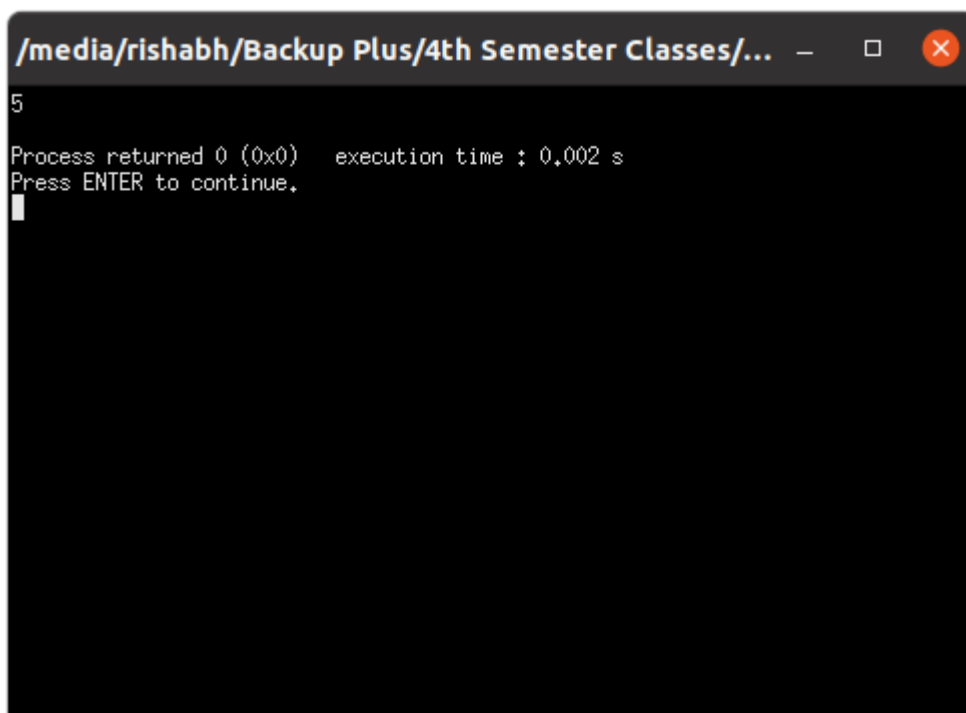
}

int main(){

    One::printX();

}
```

### Output



```
/media/rishabh/Backup Plus/4th Semester Classes/...  -  □  ×
5
Process returned 0 (0x0)   execution time : 0.002 s
Press ENTER to continue.
█
```

---

## 4) To find sum of two numbers

### Source Code

```
#include <iostream>
using namespace std;

namespace sum{

    int x = 5;
    int y = 10;

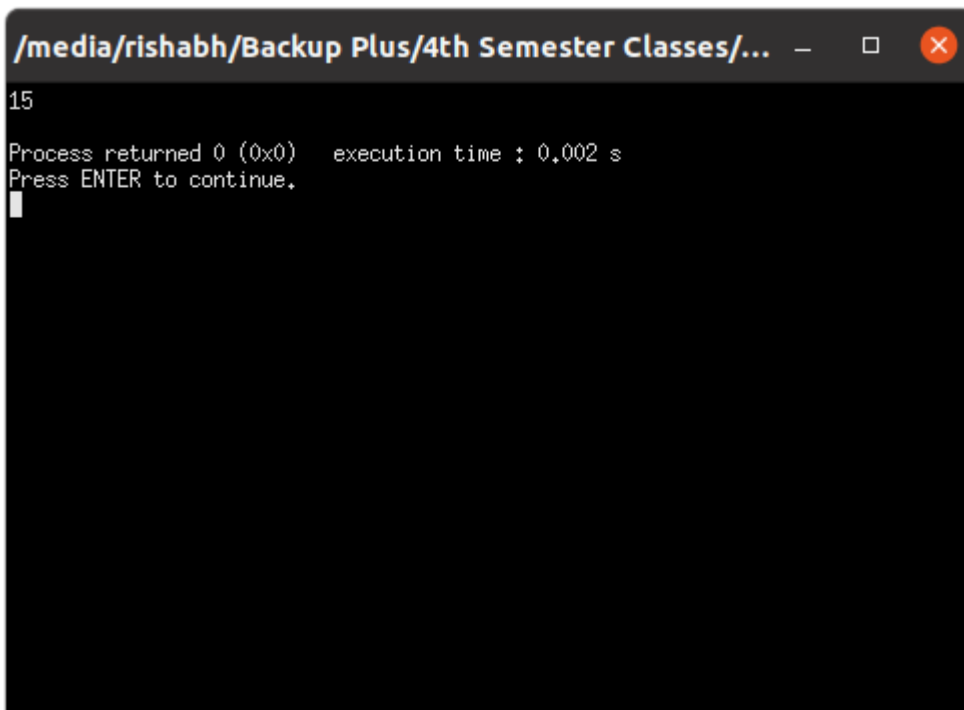
    int sum = x + y;

    void printSum(){
```

```
        cout<<sum<<endl;
    }
}

int main(){
    sum::printSum();
}
```

### Output



```
/media/rishabh/Backup Plus/4th Semester Classes/...  -  □  ×
15
Process returned 0 (0x0)   execution time : 0.002 s
Press ENTER to continue.
█
```

---

### 5) Find Minimum and Maxmum of three Nos.

#### Source Code

```
#include <iostream>

using namespace std;

namespace maxMinFinder{

    int a = 10;
    int b = 45;
    int c = 9;
    int min,max;
```

```
void findMin(){

    if(a < b && a < c){
        min = a;
    }

    if(b < a && b < c){
        min = b;
    }
    if(c < a && c < b){
        min = c;
    }

    cout<<min<<endl;

}
void findMax(){

    if(a > b && a > c){
        max = a;
    }

    if(b > a && b > c){
        max = b;
    }
    if(c > a && c > b){
        max = c;
    }
    cout<<max<<endl;

}

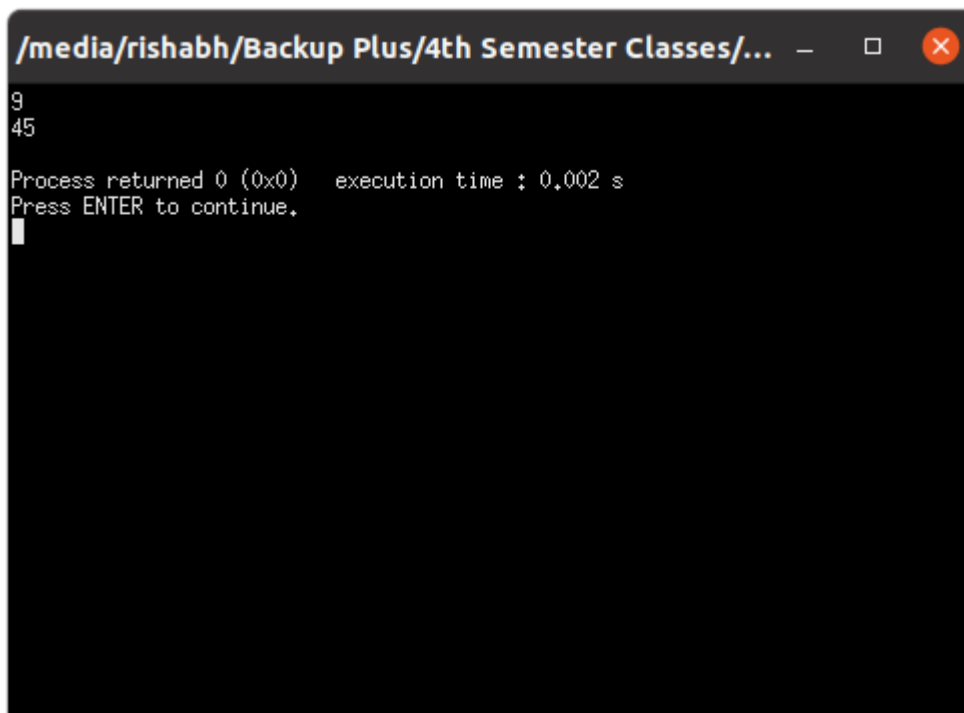
}

int main(){

    maxMinFinder::findMin();
    maxMinFinder::findMax();

}
```

### Output



A terminal window with a dark background and light-colored text. The window title bar is dark with three icons: a minus sign, a square, and a red circle with a white 'X'. The text inside the terminal shows the output of a command, including the numbers '9' and '45', a message about process return and execution time, and a prompt to press ENTER.

```
/media/rishabh/Backup Plus/4th Semester Classes/... - □ ×  
9  
45  
Process returned 0 (0x0)   execution time : 0.002 s  
Press ENTER to continue.  
█
```