

# Intro to C++

## Session 3- Five Sample C++ Programs

### By Coding-Bootcamps.com

#### Program #1

//Program to just print a message on screen.

```
#include <iostream> //Preprocessor or headerfile for outputstatement
using namespace std; // Namespace declaration
```

```
int main() //Main function of the program
{
    cout << "World of C++" << endl; //Output statement
    return 0;
}
```

#####

#### Program #2

//Program to swap the two numbers by using third variable

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

```
int main()
{
    int a, b, c; // Declare Integer variables
    a = 10; // Initialise with value
    b = 20;

    c = a;
    a = b;
    b = c;

    cout << "The value of a is = " << a << endl;
    cout << "The value of b is = " << b << endl;

    return 0;
}
```

#####

#### Program #3

//Program to enter two numbers and shows their sum.

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

```
int main()
{
    int first, second;
    int sum;
```

```

    cout << "Enter the value of first number = ";
    cin >> first; //Input statement

    cout << "Enter the value of second number = ";
    cin >> second;

    sum = first + second; //Arithmetic Operation
    cout << "The sum is = " << sum << endl;

    return 0;
}

```

#####

#### Program #4

```

//Program to convert the temperature in Celcius.
#include <iostream>
using namespace std;

int main()
{
    float ftemp, ctemp; //Declare float variables
    cout<<"Enter the temperature in Fahrenheit = ";
    cin >> ftemp;

    ctemp = (ftemp - 32.0) * 5.0 / 9.0;
    cout << "The temperature in Celcius is = " << ctemp << endl;

    return 0;
}

```

#####

#### Program #5

```

//Program to display the reverse number of a given year with four digits
#include <iostream>
using namespace std;

int main()
{
    unsigned int y, d4, d3, d2, d1, res;
    cout << "Enter the year = ";
    cin >> y; // example = 2020

    d1 = y / 1000; // gets you first digit = 2
    res = y % 1000; // % is used for remainder = 20

    d2 = res/100; // gets you second digit = 0
    res = res % 100; // remainder = 20

```

```
d3 = res / 10; // gets you third digit = 2
res = res % 10; // remainder = 0

d4 = res / 1; // gets you fourth digit = 0
cout << "The reverse number is = " << d4 << d3 << d2 << d1;

return 0;
}
```