Exercise 1: Declaration and Initialization Of Data Types

This exercise will test you on data types and initialization of declared variables in C++

Problem Statement

- Declare an *integer* type variable *name* `intNumber` and *assign* it a value of **30**.

- Declare a *float* type variable name `floatNumber` and assign it a value of **30.78**.

- Declare a *double* type variable name `doubleNumber` and assign it a value of **45.1234**.

- Declare a *bool* type variable name `boolean` and assign it a value of **true**.

- Declare a *char* type variable name `charName` and assign it a value of `u`.

- Lastly, *print* the values of all *declared* variables.

Expected Output

Your program should display the following output:

Output

```
Value of Integer is 30
Value of Float is 30.78
Value of Double is 45.1234
Value of Char is u
Value of Bool is 1
```

Expected Output

Write your code below. It is recommended that you try solving the exercise yourself before viewing the solution.

Good Luck!

Exercise | Solution

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

int main() {
    int intNumber = 30;
    float floatNumber = 30.78;
    double doubleNumber = 45.1234;
    char charName = 'u';
    bool boolean = true;

    cout << "Value of Integer is " << intNumber << endl;
    cout << "Value of Float is " << floatNumber << endl;
    cout << "Value of Double is " << doubleNumber << endl;
    cout << "Value of Char is " << charName << endl;
    cout << "Value of Bool is " << boolean << endl;    // true = 1 and false = 0
    return 0;
}
```