

# C++ Programming

## Constant Variables

**Mostafa S. Ibrahim**

*Teaching, Training and Coaching since more than a decade!*

*Artificial Intelligence & Computer Vision Researcher*

*PhD from Simon Fraser University - Canada*

*Bachelor / Msc from Cairo University - Egypt*

*Ex-(Software Engineer / ICPC World Finalist)*



# Constant Variable

```
5 int main() {  
6     // Use capital letters  
7     const double PI = 3.14159;  
8     //PI = 10; // CAN't change  
9  
10    const int LUCKY { 13 };  
11  
12    //const int x; CAN'T you must assign value  
13  
14    const char charVal = 'A';  
15  
16    const string str = "Welcome to our BANK";  
17  
18    // C++ limits as const  
19    cout << INT_MAX << "\n"; // 2147483647  
20    cout << INT_MIN << "\n"; // -2147483648  
21  
22    return 0;  
23 }
```

- Define once
  - Can't change later
- Naming convention
  - Capital letters
- C++ has some defined limits
- Why use const?
  - Disallow a change
  - Clear intentions

*“Acquire knowledge and impart it to the people.”*

*“Seek knowledge from the Cradle to the Grave.”*