# Day4

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### 1. Hello, World breakdown in c++

```
#include<iostream>
using namespace std;
int main(){
  cout<<"Hello, World"<<endl;
  return 0;
}</pre>
```

- Iostream -> stands for input output stream, it must be included in every c++ file on the top if you want to use input output functionality like cout or cin.
- In c++ you can also write #include<bits/stdc++> in place of #include<iostream>, but remember that it will include all the libraries inside the c++ (means you don't need to include any other header files after it.
- using namespace std is used to avoid writing std::cout<< or std::cin>> every time.
- main() function is the main part of the code. It is called automatically. Only the line of code inside main function will be taken under consideration by the compiler.
- end1 is used to put a newline. You can also use "\n" in place of endl.

- All the statements must include a semicolon; at the end of the line.
- Anything written after return 0; will not be considered by the compiler.

```
#include<bits/stdc++.h>
using namespace std;
int main(){
  cout<<"Will be printed on the output screen\n";
  return 0;
  cout<<"Will not be printed on the output screen\n";
}</pre>
```

### 2. Variables

#### 2.1. Local variable

It is the variable defined inside a function or a condition. You can't use it outside the function or condition in which it is defined.

• In the above code line above return 0; will give you an error because you are trying to access a which was defined in if condition.

• It is only accessible within the curly braces {} of if condition.

#### 2.2. Global variable

It is the variable defined outside the main function. It is used in every part of your code after the line from where it is defined.

## 3. References

### 3.1. Youtube link: <u>freecodingclub</u>

All the videos of the sessions will be uploaded there.

#### 3.2. Other links

- cppreference.com
- cplusplus.com
- cpp.sh

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