

## BASIC INPUT/OUTPUT

Gyro A. Madrona

**Electronics Engineer** 





@OrbitGNX





#### TOPIC OUTLINE

**Header File** 

**Standard Output** 

**Standard Input** 

**Reading Strings** 



# STANDARD INPUT/OUTPUT LIBRARY



#### **HEADER FILE**

To perform I/O operations, you need to include the <iostream> header file:

```
#include <iostream>
```

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



#### STANDARD OUTPUT

std::cout (character output) is used to
display output to the console. The << operator
(insertion operator) is used to send data to
cout.</pre>

```
#include <iostream>
// using namespace std;
int main() {
   std::cout << "Hello, World!" <<</pre>
   endl;
   std::cout << "This is C++." << endl;</pre>
   return 0;
```

#### STANDARD INPUT

std::cin (character input) is used to read
input from the user. The >> operator (extraction
operator) is used to extract data from cin.

```
#include <iostream>
// using namespace std;
int main() {
   int age;
   std::cout << "Enter your age: ";</pre>
   std::cin >> age;
   std::cout << "You are" << age <<</pre>
   "y/o";
   return 0;
```

#### **READING STRINGS**

To read strings (including spaces), use **getline()** instead of **cin**.

```
#include <iostream>
#include <string>
using namespace std;
int main() {
   string full_name;
   cout << "Enter your full name: ";</pre>
   getline(cin, name);
   cout << "Hello, " << name;</pre>
   return 0;
```

#### **EXERCISE**

Determine the output of this code snippet:

```
string full_name = "";
cin >> full_name;
cout << full_name;
input:
Ada Lovelace
output:</pre>
```

Determine the output of this code snippet:

```
string full_name = "";
getline(cin,full_name);
cout << full_name;
input:
Ada Lovelace
output:</pre>
```



### **LABORATORY**



#### LABORATORY 2

Reference:

L4 Lab-2 Simple Decimal-to-Binary Converter.pdf

