COMP 2006 - LECTURE 1

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INSTALLING C++

- For Windows - https://www.youtube.com/watch?v=MNJ7aYHCMCo

- For Mac OS -
  https://www.youtube.com/watch?v=YuutFT6Yhichttps://www.youtube.com/watch?v=YuutFT6Yhic

- Install VS code for Mac - https://www.youtube.com/watch?v=tCfbi5PF1y0

WHY LEARN THIS COURSE?

- C++ is utilized extensively in the industry today for various real-world applications!

Real-world applications using C++
1. Games
2. GUI Based Systems – Adobe, Media Players
3. Operating Systems – Mac OS, Windows
4. Web Browsers – Mozilla Firefox, Google
5. Database Software - MySQL

HELLO WORLD!

```c
#include <stdio.h>

#include <iostream>

int main() {

    printf("Hello World\n");

    printf("I am Syem\n");

    return 0;

}
```

Displays
Hello World I am Syem

HOW ABOUT NUMBER?

#include <iostream>

```cpp
int main() {
    std::cout<< "Number 1" << std::endl;

    std::cout<< "Number 2" << std::endl;

    std::cout<< "Number 3" << std::endl;

    return 0;
}
```

Returns
Number 1 Number 2 Number 3

COMMENTS

Returns
Number 1 Number 2 Number 3

```cpp
#include <iostream>

int main() {
    std::cout<< "Number 1" << std::endl; // displays Number 1

    std::cout<< "Number 2" << std::endl;

    std::cout<< "Number 3" << std::endl;

/* displays Number 1
 To Number 3 */

    return 0;
}
```

DIFFERENCE BETWEEN // AND /* */

- // is for single line comments

- /* …... */ is for multiple line comments

- Comments are only used to describe your code to people who read it. Like me!

- It helps others understand your code better.

RETURNING AN ACTUAL NUMEBR!

```cpp
#include <iostream>


int main() {
    std::cout << "I am printing: " << 1 << std::endl;

     /* This time its a number */

    return 0;

}
```

Returns
I am printing 1

RECAP

- Compiled and run our first hello world

- Also returned other words and a number

- Learned about single line and multiple line comments

- That's it for today, enjoy!!!