



General Computer Science for Engineers CISC 106 Lecture 27

Dr. John Cavazos
Computer and Information Sciences
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Lecture Overview

- Anatomy of a C++ program
- Read Ullman and Singer (Chps 1 – 2)

First C++ program (hello.cc)

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

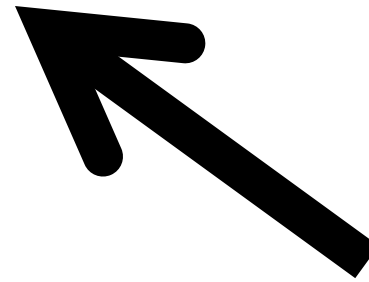
```
int main()
```

```
{
```

```
    // display output
```

```
    cout << "Hello World\n";
```

```
}
```



A library providing
input and output
functionality

First C++ program (hello.cc)

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

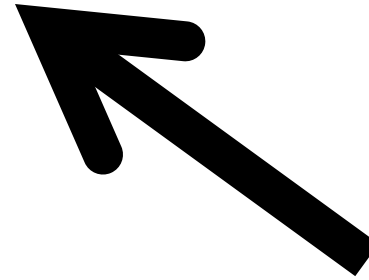
```
int main()
```

```
{
```

```
    // display output
```

```
    cout << "Hello World\n";
```

```
}
```



Can use names in
the standard C++
library

First C++ program (hello.cc)

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

```
int main()
```

```
{
```

```
    // display output
```

```
    cout << "Hello World\n";
```

```
}
```



All C++ programs
have a main function

First C++ program (hello.cc)

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

```
int main()
```

```
{
```

```
    // display output
```

```
    cout << "Hello World\n";
```

```
}
```

A comment



C++ program (sell.cc)

```
#include <iostream>
using namespace std;
int main()
{
    unsigned short quantity;
    float price;
    float taxRate;
    float totalPrice;
```

C++ program (sell.cc)

```
// Assign some values
```

```
quantity = 3;
```

```
price = 10.75;
```

```
taxRate = 0.05;
```

```
cout << "The cost of " << quantity <<  
" pizzas at a price of $" << price <<  
" with tax comes to $";
```

C++ program (sell.cc)

// Assign some values

```
totalPrice = (quantity * price) +  
              ((quantity * price) * taxRate);
```

```
cout << totalPrice << "." << endl;
```

```
}
```