Ch 2: Introduction to C++

CS 1428 Fall 2011

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Lecture 2

Sample C++ Program

```
// A simple C++ program
#include <iostream>
using namespace std;
int main ()
{
    cout << "Programming is fun";
    return 0;
}</pre>
```

1

Parts of a C++ Program

Comment: //...

- ignored by compiler
- notes to human reader

Preprocessor Directive: #include ...

- preprocessor inserts contents of file here
- using namespace std;
 - every name in iostream is part of std namespace



- int main ()
 - start of function (group of stmts) named main
 - the starting point of the program
- { }
- contains the body of the function
- cout << "Programming is fun";
 - statement that displays message on screen

- sends value of 0 to OS (means success!)







cout: examples

```
cout << "This is an example.";
cout << "This is" << " an example.";
cout << "This is";
cout << " an example";</pre>
```

```
cout << "The best selling book on Amazon";
cout << " is \"The Help\"";
cout << "The best selling book on Amazon" << endl;
cout << " is \"The Help\"";</pre>
```

cout << "The best selling book on Amazon\n is \"The Help\"";</pre>

8





Assignment statement

- Stores or saves a value to a variable
- <variable> = <rhs>
- Value of the rhs is stored in the variable

• examples:

- someNumber = 100;
- firstLetter = 'J';

Program with a variable

```
#include <iostream>
using namespace std;
int main()
{
    int number;
    number = 100;
    cout << "The value of the number is " << number << endl;
    return 0;
}</pre>
```

11