

CSCI 152

Programming Fundamentals II



Summer 2008

Assignment #1 Creating a C++ Program

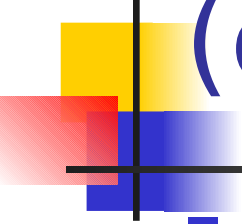
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Creating a C++ Program

- C++ program has two parts:
 1. Preprocessor directives
 2. The program
- Preprocessor directives and program statements constitute C++ source code
- Source code must be saved in a file with the file extension `.cpp`

Creating a C++ Program (continued)



- Compiler generates the object code
 - Saved in a file with file extension `.obj` (Windows) or `.o` (Unix)
- Executable code is produced and saved in a file with the file extension `.exe` (Windows) or no extension (Unix)

Program Style and Form



- The Program Part

- Every C++ program has a function main

- Basic parts of function main are:

- The heading

- The body of the function

- The heading part has the following form

```
typeOfFunction main(argument list)
```

Body and Syntax



- The body of the function is enclosed between { and }
- Has two types of statements
 - Declaration statements
 - Executable statements
- Errors in syntax are found in compilation

```
int x;           //Line 1
```

```
int y           //Line 2: syntax error
```

```
double z;       //Line 3
```

```
y = w + x;     //Line 4: syntax error
```