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Prof. Pam Wiese

C++ Programming I

**Week 1 Worksheet 1**

**1. What is an IDE?**

IDE stands for an 'Integrated Development Environment.' IDE is a programming environment (software application) that often consists of a code editor (i.e. Dev-C++, MS Visual Studio, XCode), a compiler and a debugger, hence it's 'integrated' characteristic. An IDE is one of two ways to create a program; alternative options include text editors such as Notepad etc. In this course, we will mainly utilize an Integrated Development Environment in the form of Dev-C++ 5.11.

**2. What is one way you can make a line in your program just a comment? (like the ones at the top of a program)**

One way to make a line in a program a comment is to **type two slashes** at the beginning of the desired comment location. It should be noted that \\ (backslash) is entirely different from // (comment) and cannot be interchanged. Comments look something like:

// framework.cpp

// Description: All code must have a description.

// Author: Mariya Eggensperger

// Date: 09.07.2015

// Compiler: Dev-C++ 5.11

3. What is the function that *every* C++ program must have? (It's the only one you've used so far.)

Every C++ program must contain

**int main()**

**{**

**}**

\*It is the one of the most important parts of the program.

**4. What is the purpose of the line, #include <iostream>?**

Lines that begin with # are called 'directives. The line #include <iostream> *directs* the computer to *include* portions of standard C++ code, which ultimately authorize final inputs/outputs.

**5. What are the characteristics of a good algorithm?**

A good algorithm will include an ordered set of instructions, be unambiguous, produce desired outputs, and can be repeated.