# C++ Programming

## from Beginner to Expert

Chapter 1: Introduction to Computers and Programming

#### Milad Molaee





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### a simple C++ code



```
1 // Fig. 6.4: GradeBook.cpp
2 // Member - function definitions for class GradeBook that
3 // determines the maximum of three grades.
4 #include <iostream>
5 using namespace std;
6 #include "GradeBook.h" // include definition of class GradeBook
7 // constructor initializes courseName with string supplied as argument;
  // initializes maximumGrade to 0
9 GradeBook::GradeBook( string name )
            : maximumGrade( 0 ) // this value will be replaced by the maximum grade
       setCourseName( name ): // validate and store courseName
   } // end GradeBook constructor
   // function to set the course name; limits name to 25 or fewer characters
15 void GradeBook::setCourseName( string name )
16 €
       if ( name.size() <= 25 ) // if name has 25 or fewer characters
18
            courseName = name: // store the course name in the object
19
       else // if name is longer than 25 characters
       f // set courseName to first 25 characters of parameter name
```

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