# CSCI-101 Exam 2

# You are awesome!

Name
<b>Instructions:</b> Problem 1 is the only problem that asks you to write a complete program. For all of the others, write <b>only</b> the code that is necessary to answer the problem. You need not include import statements for any of the problems.
If the problem asks you to read from the keyboard use the Scanner declared in Problem 2.
Please write clearly, with proper indentation, and use meaningful variable names.
Rock this exam! You are awesome!

1.	Driver Write the most simplistic, yet complete, program, in a class of your choosing, that simply prints Hello World! to the screen.
2	Scanner
۷.	Declare a Scanner that can read from the keyboard.
3.	If-else Block Write a segment of code that reads an integer from the keyboard and uses an if-else block to print odd if the integer is odd or print even if the integer is even
	if the integer is odd or print <b>even</b> if the integer is even.
_	
4.	<b>?: Operator</b> Write a segment of code that reads a String from the keyboard and uses the <b>?:</b> operator to print <b>true</b> if the string contains more than 5 characters or prints <b>false</b> if it does not.

5.	While-loop Write a segment of code that uses a while-loop to print the numbers from 10 to 20, inclusively.
6.	For-loop Write a segment of code that uses a for-loop to print the numbers from 10 to 20, inclusively.
7.	Array Declaration Write a single statement that creates an array named array1 that is initialized with the integer values 1 through 5.
8.	Array Element Retrieval Write a segment of code that prints the value of each element in an array named array2. Do not declare array2, simply assume it exists. Do not assume anything about the dimensions of array2.
9.	Array Element Modification  Write a segment of code that doubles the value of each element in an array of integers named array3.  Do not declare array3, simply assume it exists. Do not assume anything about the dimensions of array3.

10. 2D Arra	y Declaration
-------------	---------------

Write a statement that declares a 5x5 array of integers named matrix1.

## 11. 2D Array Initialization

Write a segment of code that populates **matrix1** (declared in the previous problem) with random integers.

# 12. 2D Array Element Retrieval

Write a segment of code that prints the sum of the second elements in each row of a 2D array named **matrix2**. Do not declare the 2D array named **matrix2**, simply assume it exists. Do not assume anything about the dimensions of **matrix2**.

13.	. 2D Array Element Modification Write a segment of code that sets each element in a 2D array of integers named matrix3 to -1. Do not declare the 2D array named matrix3, simply assume it exists. Do not assume anything about the dimensions of matrix3.

## 14. Method Definition with Primitive Parameters

Write a method named **sum** that has two integer parameters and returns the sum of the arguments passed into the method.

#### 15. Method Calls

Write a segment of code that reads two integers from the keyboard, passes them to the method named **sum**, and prints to the screen the value returned by **sum**.