**CSci 1500 - Assignment 13**

**What you need to turn in:** Paste your C++ code for each of the problems, in this document after the given problem. Also save, compile and run your C++ code. Upload this document with your code added and the \*.cpp file to the dropbox.

1. 10 pts Consider the following program segment – start here:

//include statement(s)

//using namespace statement

int main()

{

//variable declaration

//executable statements

//return statement

}

1. Write a C++ statement that includes the header file iostream and string.
2. Write a C++ statement that allows you to use cin, cout, and endl without the prefix std::
3. Write C++ statements that declare and initialize the following named constants: SECRET of type int initialized to 11, and RATE of the type double initialized to 12.50.
4. Write C++ statements that declare and initialize the following variables: num1, num2, and newNum of type int; name of type string; and hoursWorked and wages of type double.
5. Write a C++ statement that store 15 into num1 and 28 into num2.
6. Write a C++ statement that outputs the following line (let the program supply the values):

The value of num1 = 15 and the value of num2 = 28

1. Write a C++ statement that multiplies the value of num1 by 2, adds the value of num2 to it, and then stores the result in newNum. Then, write a C++ statement that outputs the value of newNum.
2. Write a C++ statement that updates the value of newNum by adding the value of the named constant SECRET. Then, write a C++ statement that outputs the value of newNum with an appropriate message.
3. Write a C++ statement that stores “Your Name” into name (this should be your actual given name).
4. Write a C++ statement that stores 45.50 into hoursWorked.
5. Write a C++ statement that multiplies the value of the named constant RATE by the value of hoursWorked and stores the result into the variable wages.
6. Write the C++ statements that produce the following output:

Name: //output the value of the variable name

Pay Rate: $ //output the value of the variable RATE

Hours Worked: //output the value of the variable hoursWorked

Salary: $ //output the value of the variable wages

The complete Output should be:

The value of num1 = 15 and the value of num2 = 28

The value of newNum = 58

The new value of newNum = 69

Name: Your Name

Pay Rate: $12.5

Hours Worked: 45.5

Salary: $568.75

//include statement(s)

#include <iostream>

#include <string>

//using namespace statement

using namespace std;

int main()

{

//variable declaration

int SECRET, num1, num2, newNum;

double RATE, hoursWorked, wages;

string name;

//executable statements

SECRET = 11;

RATE = 12.50;

num1 = 15;

num2 = 28;

newNum = (num1\*2)+num2;

name = "Tom Stutler";

hoursWorked = 45.50;

wages = RATE\*hoursWorked;

//return statement

cout << "The value of num1 = " << num1 << "and the value of num2 = " << num2 << endl;

cout << "The value of newNum = " << newNum << endl;

cout << "The new value of newNum = " << newNum+SECRET << endl;

cout << "Name: " << name << endl;

cout << "Pay Rate: $" << RATE << endl;

cout << "Hours Worked: " << hoursWorked << endl;

cout << "Salary: $" << wages << endl;

}