CS 1428 Lab 10 Sections L19 and L06

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Functions (cont.)

- 1. Write a function named timesTen. The function should have an integer parameter named number. When timesTen is called, it should display the product of number and 10. (Note: Just write the function definition. Do not write a complete program.)
- 2. Write the function prototype for the timesTen function that you wrote in Question 1.
- 3. A program contains the following function:

```
int cube(int num)
{
   return num * num * num;
}
```

Write a statement that passes the value 4 to this function and assigns its return value to the variable result. Assume that result has been declared.

4. The following program asks the user to enter two numbers. What is the output of the program after the user enters 12 then 14 when prompted?

```
#include <iostream>
using namespace std;

void func1(int &, int &);
void func2(int &, int &, int &);
void func3(int, int, int);

int main()
{
  int x = 0, y = 0, z = 0;
```

```
cout << x << " " << y << " " << z << endl;
   func1(x, y);
   cout << x << " " << y << " " << z << endl;
   func2(x, y, z);
   cout << x << " " << y << " " << z << endl;
   func3(x, y, z);
   cout << x << " " << y << " " << z << endl;
   return 0;
}
void func1(int &a, int &b)
      cout << "Enter two numbers: ";</pre>
         cin >> a >> b;
void func2(int &a, int &b, int &c)
   b++;
   c--;
   a = b + c;
void func3(int a, int b, int c)
{
   a = b - c;
```

- 5. Write a program (lab10 $_$ 01.cpp) that calculates the gross pay of an employee. Your program should:
 - (a) have the following **global** constants declared
 - i. $PAY_RATE = 20.55$
 - ii. $BASE_HOURS = 30.0$
 - iii. $OT_MULTIPLIER = 1.5$
 - (b) Ask the user to enter the number of hours worked (Note: Be sure to validate the hour entered by the user. Do not accept negative values for hours.)
 - (c) Get the amount of base pay (using a function)
 - (d) Get overtime pay if any (using a function)
 - (e) Display the employee's base pay, overtime pay, and total pay

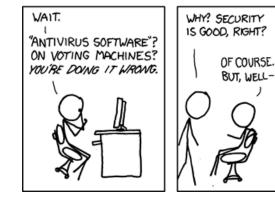
To determine the base pay: If the hours worked is greater than the base hours, then base pay equals base hours times the pay rate. Otherwise, base pay equals the hours worked times the pay rate.

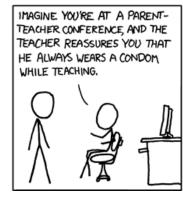
To determine the overtime pay If the hours worked is greater than the base hours, then overtime pay equals hours worked minus base hours, times the pay rate multiplied by the overtime multiplier. Otherwise, overtime pay equals zero.

For example: If the hours worked are 35, then the base pay is 30 * 20.55, and the overtime pay is 5 * 20.55 * 1.5.

Upload your source code lab10.cpp and attach a print out to this worksheet.

PREMIER ELECTION SOLUTIONS (FORMERLY DIEBOLD)
HAS BLAMED OHIO VOTING MACHINE ERRORS ON PROBLEMS
WITH THE MACHINES' MCAFEE ANTIVIRUS SOFTWARE.







And thats *another* crypto conference I've been kicked out of. C'mon, it's a great analogy!