Assignment (3)

Ouestions:

- 1- What is the value of 31/3?
- 2- What is the value of 31%3?
- 3- If myAge, a and b are all int variable, what are their values after:

4- What is the value of the following expressions:

I
$$8+2*3$$
 III $(5*2-3)/6$
III $5*2-3/6$ IV $4+2/4*8$

5- If x = 6, y = 7, z = 3, determine whether the following expressions evaluate to TRUE or FALSE.

A- if
$$(x>4 && Y>5 || z>7)$$

B- if
$$(x>4 || y>5 && z>7)$$

C- if (x>4 && y>5 && z>7)

D- if
$$(x=6 \&\& x != 4)$$

E- if
$$(x = 8 || x = 6)$$

6- What is the difference between x = 5 x == 5?

7- Do the following values evaluate to TRUE or FALSE?

III:
$$-1$$
 IV: $x = 0$

$$V-x = 0$$
 //assume that x has the value of 0.

8- Is the following a correct C++ statement?

If it is correct say what it does. If it is not correct, then correct it and say what is does.

- 9- The purpose of the conditional operator is to:
 - a) Select the highest of two values.
 - b) Select the more equal of two values.

10-If numb is -42, what is the value of this conditional expression?

```
numb = (numb < 0) ? 0 : numb * numb;
11- What gets printed from this program segment?
      Short int i=1, j=2;
      if(i=1)
             if(j=2)
      cout \ll endl \ll i + j;
      else
              cout \ll endl \ll i - i;
       cout << endl << i * j;
12-What gets printed from this program segment?
       Short int i=1, j=2;
       if(i=1)
              if(j=2)
       cout \ll endl \ll i + j;
       else
              cout \ll endl \ll i - j;
       cout << endl << i * j;
```

Exercises:

1- Write a C++ program that prints the square of a number the user types in. use floating point.

2- Write a single if statement that examines two integer variables and changes the larger to the smaller, using only one else clause.

3- Examine the following program. Imagine entering three numbers, and write what output you expect.

```
#include <iostream.h>
int main()
{
    short int a, b, c;
    cout << "\nPlease enter three numbers: \n";
    cout << "a: "; cin >> a;
    cout << "\nb: "; cin >> b;
    cout << "\nc: "; cin >> c;
```

#include <iostream.h>
int main()

short int a = 1, b = 1, c;
if (c = (a - b))

cout << "\nThe value of c is " << c;
return 0;

6- Enter the program from exercise 5; compile, link and run it.
What was the output? Why?