**CS120 Fundamental of Programming**

**Lab No. 2: Programs Using Variables, Operators, Expressions**

This program shows comparison operators usage.

**Example 1:**

#include<stdio.h>

main()

{

int a=2,b=3;

printf("%d",(a>b)); // output will be zero since a is not greater than b

printf("%d",(a<b)); //output will be one since a is less than b

printf("%d",(a>=b)); //output will be zero since a is not greater or equal to b

printf("%d",(a<=b)); //output will be one since a is less than b

printf("%d",(a!=b)); //output will be 1 since a is not equal to b

printf("%d",(a==b)); //output will be zero since a is not equal to b

}

**Example 2:**

This program demonstrates postfix and prefix increment and decrement operations.

#include <stdio.h>

void  main()

{

       int    a, b;

       a  =  b  =  5;

printf("postfix mode and prefix mode example\n");

       printf("initial value, a = b = 5\n");

       printf("\npostfix mode, a-- = %d  prefix mode, --b = %d", a--, --b);

       printf("\nprefix mode, a-- = %d  postfix mode, --b = %d", --a, b--);

       printf("\npostfix mode, a-- = %d  prefix mode, --b = %d", a--, --b);

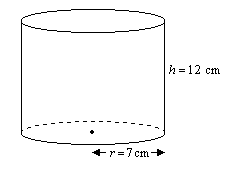
       printf("\nprefix mode, a-- = %d  postfix mode, --b = %d", --a, b--);

       printf("\npostfix mode, a-- = %d  prefix mode, --b = %d", a--, --b);

   }

**Practice Exercises**

1. Write a program that declares several int and float variables, without initializing them, and then prints their values. Is there any pattern to the values?
2. Write a program to compute and display the volume of a cylinder with following measurements.



where volume v=πr2h

Hint: r2 = r\*r , π = 22/7.

1. Write a program that converts the days to Weeks and Days. For example, if the number in days is 24, the output will be : 3 Weeks 3 Days [Hint: Use modulus operator]