**CS120 Fundamental of Programming**

**Lab No. 3: Relational Operators and IF…ELSE Statement**

**Example 1:** Write a C program to print the number entered by user only if the number entered is negative.

#include <stdio.h>

int main()

{

int num;

printf("Enter a number to check.\n");

scanf("%d",&num);

if(num<0) /\* checking whether number is less than 0 or not. \*/

printf("Number=%d\n",num);

printf("The if statement in C programming is easy.");

return 0;

}

**Example 2:** This program inputs a temperature value from user and prints the status.

#include <stdio.h>

Int main()

{

float temp;

printf("What is the temperature outside?");

scanf("%f",&temp);

if(temp < 65.0)

printf(" It's a bit chilly out!\n");

else

printf("It seems pleasant!");  
  
 return 0;

}

**Example 3:** This program demonstrates use of relational operators (<, >, <=, >=, ==, !=) and if statement.

#include <stdio.h>

/\* function main begins program execution \*/

int main( )

{

int num1; /\* first number to be read from user \*/

int num2; /\* second number to be read from user \*/

printf( "Enter two integers, and I will tell you\n" );

printf( "the relationships they satisfy: " );

scanf( "%d%d", &num1, &num2 ); /\* read two integers \*/

if ( num1 == num2 )

printf( "%d is equal to %d\n", num1, num2 );

if ( num1 != num2 )

printf( "%d is not equal to %d\n", num1, num2 );

if ( num1 < num2 )

printf( "%d is less than %d\n", num1, num2 );

if ( num1 > num2 )

printf( "%d is greater than %d\n", num1, num2 );

if ( num1 <= num2 )

printf( "%d is less than or equal to %d\n", num1, num2 );

if ( num1 >= num2 )

printf( "%d is greater than or equal to %d\n", num1, num2 );

return 0; /\* indicate that program ended successfully \*/

} /\* end function main \*/

**Exercises**

1. Write a program that accepts an integer number input from the user and checks that number is positive, negative or zero.
2. Write a program to find the largest of three numbers entered by the user.