**CS120 Fundamental of Programming**

**Homework 3: Relational Operators and IF…ELSE Statement**

**Homework Assignment**

1. Write a C program to check whether a number entered by user is even or odd.

#include <stdio.h>

int main()

{

int x;

printf("Enter a number : ");

scanf("%d", &x);

if ( x % 2 == 0 )

printf("%d is even\n", x);

if ( x % 2 == 1 )

printf("%d is odd\n", x);

return 0;

}

1. Write a program that will ask a user to enter 2 numbers. Determine if the first number is greater than, less than, or equal to the second number.

#include <stdio.h>

int main()

{

int x, y;

printf("Enter two numbers : ");

scanf("%d%d", &x, &y);

if ( x > y )

printf("%d is greater than %d\n", x, y);

if ( x < y )

printf("%d is smaller than %d\n", x, y);

if ( x == y )

printf("%d is equal to %d\n", x, y);

return 0;

}

1. Write a program that takes character input and determines the character is vowel or not.

#include <stdio.h>

int main()

{

char c;

printf("Enter a character input : ");

scanf("%c", &c);

if ( c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u' )

printf("%c is vowel", c);

else if ( c == 'A' || c == 'E' || c == 'I' || c == 'O' || c == 'U' )

printf("%c is vowel", c);

else

printf("%c is not vowel");

return 0;

}