## Experiment No: 23

## **Experiment Name:** Print All Divisors of m from 1 to n

## **Objective:**

The objective of this program is to print all divisors of a given number m within the range from 1 to n. This exercise aims to reinforce understanding of loops and conditional statements in C programming.

# **Code:**

#include <stdio.h>

int main() {

int x, i;

printf("Input an integer: ");

scanf("%d", &x);

printf("All the divisors of %d are: ", x);

for(i = 1; i <= x; i++) {

if((x%i) == 0){

printf("\n%d", i);

}

}

return 0;

}

# **Input:**

Input an integer: 8

# **Output:**

All the divisors of 8 are:

1

2

4

8

## **Discussion:**

The program successfully identifies and prints all divisors of the given number m within the specified range. The loop iterates through numbers from 1 to n and checks for divisibility, effectively finding divisors.