## Experiment No: 17

## **Experiment Name:** Print n Stars (\*) Sequentially

## **Objective:**

In this lab exercise, we will write a simple C program to print n stars (\*) sequentially. The program will take an input from the user for the number of stars to be printed and then display them sequentially.

# **Code:**

#include <stdio.h>

int main() {

int n;

printf("Enter the number of rows: ");

scanf("%d", &n);

for (int i = 0; i < n; i++) {

for (int j = 0; j < n; j++) {

printf("\* ");

}

printf("\n");

}

return 0;

}

# **Input:**

Enter the number of rows: 4

# **Output:**

\* \* \* \*

\* \* \* \*

\* \* \* \*

\* \* \* \*

## **Discussion:**

This code demonstrates a simple yet effective application of nested loops in C programming. The code is concise and easy to understand, making it a good example for beginners. However, it can be extended in several ways. For example, the code could be modified to:

* Generate different patterns, such as triangles or diamonds.
* Allow the user to specify the character to be used instead of asterisks.
* Use conditional statements to create more complex patterns.