## Experiment No: 29

## **Experiment Name:** Pattern Printing

## **Objective:**

* Provide a brief overview of the purpose of the program.
* Explain the significance of printing patterns in programming.
* State the objectives of the lab report.

# **Code:**

#include <stdio.h>

int main() {

int n, count = 1;

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

scanf("%d", &n);

for (int i = 1; i <= n; ++i) {

for (int j = 1; j <= i; ++j) {

printf("%d ", count);

++count;

}

printf("\n");

}

return 0;

}

# **Input:**

Enter the number of rows: 4

**Output:**

1

2 3

4 5 6

7 8 9 10

## **Discussion:**

* Discuss the advantages and limitations of using nested loops for printing patterns.
* Analyze how the structure of the loops influences the pattern output.
* Address any challenges or potential improvements in the program.