## 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,m=1;

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

scanf("%d",&n);

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

{

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

{

printf("\*");

}

printf("\n");

}

for(int i=n-1; i>=1; i--)

{

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

{

printf("\*");

}

printf("\n");

}

return 0;

}

# **Input:**

Enter the number of columns : 4

**Output:**

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## **Discussion:**

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