

## Parshvanath Charitable Trust's

## A. P. SHAH INSTITUTE OF TECHNOLOGY

(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai) (Religious Jain Minority)

## **Department of Humanities and Applied Science**

Academic Year: 2023-24 Name of Student: Vedant Nagesh Terse

Semester: II Student ID:23104195

Class / Branch: F.E ALL

Subject: C Programming

Date of Performance: 6/03/2024

Date of Submission: 6/03/2024

Name of Instructor: Prof. Vandana Virbhadre

**Experiment No.12** 

Aim: Write a program to print Diamond like star pattern using looping constructs.

## PROGRAM:-

```
1 #include <stdio.h>
2
int main() {
4    int rows, i, j, space;
5
6    printf("Enter the number of rows for the diamond: ");
8
9
10 for (i = 1; i <= rows; i++) {
1 for (space = 1; space <= rows - i; space++) {
12    printf(" ");
13 }
4 for (j = 1; j <= 2 * i - 1; j++) {
15    printf("*");
16 }
17 printf("\n");
18 }
19
20
21 for (i = rows - 1; i >= 1; i--) {
22 for (space = 1; space <= rows - i; space++) {
34    printf(" ");
35 }
36    printf(" ");
37 }
38 printf("\n");
39 }
30    return 0;
31 }
32    return 0;</pre>
```

OUTPUT:-