

Star pattern printing programs in C – For practical classes

1. Printing odd number of stars count in each line and building it as a pyramid.

```
[] G Save
 main.c
                                                         Run
                                                                    Output
                                                                 ▲ /tmp/ixHZd1bZvG.o
  2 #include<stdio.h>
                                                                   Enter number of rows: 3
  4 int main()
  5 + {
6 int n, k, i, j;
     printf("Enter number of rows: ");
scanf("%d",&n);
      for(i = 1; i <= n; i++)
                                                                   === Code Execution Successful ===
 9
 10 -
 11
            for(k = i; k < n; k++)
 12
 13 +
 14
               printf(" ");
 15
            for(j = 1; j <= (2 * i - 1); j++)
 16
 17 -
 18
               printf("*");
 19
 20
          printf("\n");
 21
 22 }
```

2. Printing the odd number of stars in an inverted pyramid shape.

```
main.c
                                    [] G Save
                                                         Run
                                                                   Output
1 #include<stdio.h>
                                                                  /tmp/CkGqnokBFW.o
                                                                  Enter number of rows: 3
3 int main()
4 - {
      int n, k, i, j;
5
 6
      printf("Enter number of rows: ");
      scanf("%d",&n);
     for(i = n; i >= 1; i--)
{
8
                                                                  === Code Execution Successful ===
9 +
           for(k = i; k < n; k++)</pre>
10
11 -
              printf(" ");
13
          }
14
           for(j = 1; j \le (2 * i - 1); j++)
15
16 -
17
              printf("* ");
18
         }
           printf("\n");
19
20
21
       return 0;
```



3. Full diamond printing. Include a space in the star's printf, that comes only when you practice and get to know how your code works.

4. Hollow star printing – Square.

```
C Save Run
 1 #include <stdio.h>
                                                                                      /tmp/f3T7zSQH0F.o
 2 int main()
                                                                                      Enter the number of rows in your pattern: 4
3 ₹ {
 4
       printf("Enter the number of rows in your pattern: ");
 5
       scanf("%d",&n);
 6
 7 +
       for(int i = 1; i <= n; i++) {
       for(int j = 1; j <= n; j++) {
    if(i == 1 || i == n || j == 1 || j == n)
 8 =
9
                                                                                      === Code Execution Successful ===
                  printf("*");
10
11
                  printf(" ");
12
13
       printf("\n");
14
15
       return 0;
17 }
```



5. Inverted right angled triangle printing.

```
Save Run
                                                                                                                  Output
  main.c
  1 #include <stdio.h>
                                                                                                                 /tmp/m5RMSlQBvi.o
  2 int main()
                                                                                                                 Enter the number of rows in your pattern: 6
 3 * {
                                                                                                                 ****
          int n;
          printf("Enter the number of rows in your pattern: ");
                                                                                                                  ****
                                                                                                                    ***
           scanf("%d",&n);
5 scant("%0", %n);

7 int m = n;

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

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

10 printf(" ");

11 }

12 for(int k = 1; k <= m; k++) /
                                                                                                                 === Code Execution Successful ===
           for(int k = 1; k <= m; k++) {
    printf("*");
}</pre>
 12 +
 13
 15
               m--;
 15 m--;
16 printf("\n");
17 }
18 return 0;
19 }
```