

1.

```
#include <stdio.h>
int main() {
    int i, j, rows;
    printf("Enter the number of rows: ");
    scanf("%d", &rows);
    for (i = 1; i <= rows; ++i) {
        for (j = 1; j <= i; ++j) {
            printf("%d ", j);
        }
        printf("\n");
    }
    return 0;
}
```

Output:

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

2.

```
#include <stdio.h>
int main() {
    int i, j, rows;
    printf("Enter the number of rows: ");
    scanf("%d", &rows);
    for (i = rows; i >= 1; --i) {
        for (j = 1; j <= i; ++j) {
            printf("%d ", j);
        }
        printf("\n");
    }
    return 0;
}
```

Output:

```
1 2 3 4 5
1 2 3 4
1 2 3
1 2
1
```

3.

```
#include <stdio.h>
int main() {
    int rows, i, j, number = 1;
    printf("Enter the number of rows: ");
    scanf("%d", &rows);
    for (i = 1; i <= rows; i++) {
        for (j = 1; j <= i; ++j) {
            printf("%d ", number);
        }
    }
}
```

```

        ++number;
    }
    printf("\n");
}
return 0;
}

```

Output:

```

1
2 3
4 5 6
7 8 9 10

```

4.

```

#include<stdio.h>
#include<conio.h>
int main()
{
    int n, i, j;
    printf("Enter the number of rows: ");
    scanf("%d",&n);
    for(i = 1; i <= n; i++)
    {
        for(j = 1; j <= i; j++)
        {
            printf("%d",i);
        }
        printf("\n");
    }
    return 0;
}

```

Output:

```

1
22
333
4444
55555

```

5.

```

#include <stdio.h>
int main() {
    int i, space, rows, k = 0;
    printf("Enter the number of rows: ");
    scanf("%d", &rows);
    for (i = 1; i <= rows; ++i, k = 0) {
        for (space = 1; space <= rows - i; ++space) {
            printf(" ");
        }
        while (k != 2 * i - 1) {
            printf("* ");
            ++k;
        }
    }
}

```

```

    printf("\n");
}
return 0;
}

```

output:

```

    *
  * * *
* * * * *
* * * * * *
* * * * * * *

```

6.

```

#include <stdio.h>
int main() {
    int rows, i, j, space;
    printf("Enter the number of rows: ");
    scanf("%d", &rows);
    for (i = rows; i >= 1; --i) {
        for (space = 0; space < rows - i; ++space)
            printf(" ");
        for (j = i; j <= 2 * i - 1; ++j)
            printf("* ");
        for (j = 0; j < i - 1; ++j)
            printf(" ");
        printf("\n");
    }
    return 0;
}

```

Output:

```

* * * * * * * *
 * * * * * *
  * * * *
   * * *
    *

```