APNA COLLEGE

We will be studying the following **patterns** after completing the chapter on Functions.

Please feel free to try them on your own!

HOLLOW RECTANGLE pattern

```
* * * *
*     *
*     *
* * * *
```

APNA COLLEGE

INVERTED & ROTATED HALF-PYRAMID pattern

```
*  *  *  *
   *  *  *
      *  *
         *
```

APNA
COLLEGE

INVERTED HALF-PYRAMID with Numbers pattern

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

APNA COLLEGE

FLOYD'S Triangle pattern

```
1
2  3
4  5  6
7  8  9  10
11 12 13 14 15
```

APNA COLLEGE

0-1 Triangle pattern

```
1
0 1
1 0 1
0 1 0 1
1 0 1 0 1
```

APNA COLLEGE

BUTTERFLY pattern

```
*   *     *  ***  *** **  **
  *  *  *  **  *  **  *  *
     *  *  *  *  *
        *  *  *
        *  *  *
     *  *  *  *
  *  *  *  **  *  **  *  *
*   *     *  ***  *** **  **
```
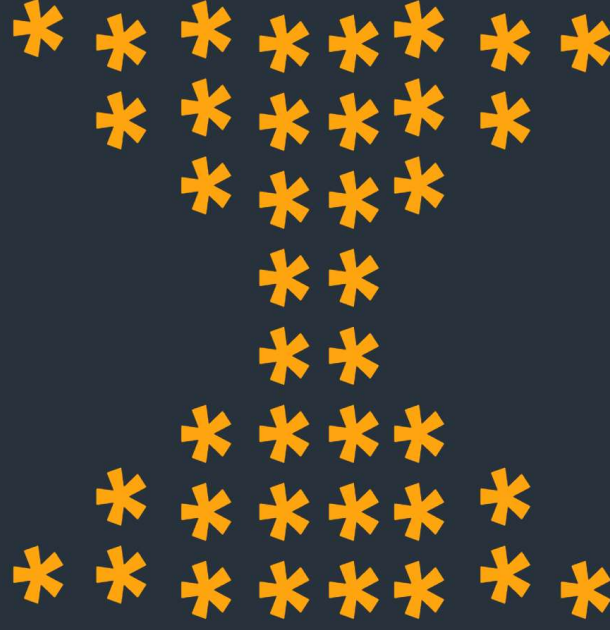
APNA
COLLEGE

APNA
COLLEGE

SOLID RHOMBUS pattern

```
    *
   * *
  * * *
 * * * *
* * * * *
 * * * *
  * * *
   * *
    *
```

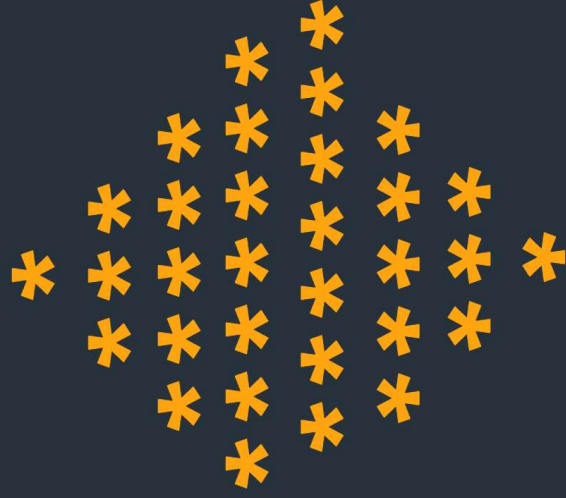## HOLLOW RHOMBUS pattern

APNA COLLEGE

DIAMOND pattern

APNA COLLEGE

NUMBER PYRAMID pattern

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

APNA COLLEGE

PALINDROMIC Pattern with Numbers pattern

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

APNA COLLEGE