Topics to discuss

- Print star Patterns

Top 20 star Pattern with code

t Half Pyramid

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

3. Left Half Pyramid

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

4. Pyramid

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

5. Reverse Right Half Pyramid

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

6. Reverse Left Half Pyramid

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

verse Pyramid

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

9. Diamond Pattern

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

10. Hour Glass

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

11. Left Pascal Triangle

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

12. Right Pascal Triangle

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

hill Pattern

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

15. Butterfly Pattern

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

16. Hollow Square

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

Pyramid

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

19. Reverse Hollow Triangle

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

20. Hollow Diamond

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

① Square Pattern

```
static void pattern(int row, int column){
    for(int i=1 ; i<=row ; i++){
        for(int j=1; j<=col ; j++){
            System.out.print("*");
        }
        System.out.println();
    }
}
```

Outer for loop → No. of rows
Inter for loop → No. of columns.

I/p : rows = 5
columns = 5

O/p :

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

r = 3 , c = 3

i=1 j=1 2 3 4x
i=2 j=1 2 3 4 x
i=3 j=1 2 3 4 x
i=4 x

	j=1	j=2	j=3
i=1	*	*	*
i=2	*	*	*
i=3	*	*	*

② Right Half Pyramid

```
static void pattern2 (int row){
    for(int i=1 ; i<=row ; i++){
        for(int j=1 ; j<=i ; j++){
            System.out.print("* ")
        }
        System.out.print( );
    }
}
```

I/p : rows = 5

O/p :

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

row = 3

i=1 j=1 2x
i=2 j=1 2 3x
i=3 j=1 2 3 4x
i=4x

```
*
* *
* * *
.
```

16. Hollow Square

```
static void pattern (int row, int col){
    for(int i=1 ; i<=row; i++){
        for(int j=1 ; j<=col; j++){
            if (i==1 || j==1 || i==row || j==col){
                System.out.print ("*");
            }
            else system.out.print (" ");

        }
        system.out.print();
    }
}
```

I/p : rows : 5
columns : 5

O/p :

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

18. Hollow Pyramid

```
static void pattern18 (int row){
   for (int i=1 ; i<=row ; i++){
        for(int j=row-1 ; j>=i ; j--){
             System.out.print (" ");
        }
        for (int j=1 ; j<=(2*i)-1 ; j++){
             if (i==1 || j==1 || i==row || j== (2*i)-1)
                  System.out.print ("*");
             else  System.out.print (" ");
        }
   System.out.println();
}
```

I/p: row: 5

O/p:

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

j: (2*i)-1

i=1, j=1

i=2, j=3

i=3, j=5

Follow Now

Start Practicing

i._am._arfin

Arfin Parween

arfin-parween