Day 9: Nested Loop

1. **Chessboard Pattern**: Write a program to create an 8×8 chessboard pattern using nested loops. Use 'X' and 'O' to represent the squares.

2. Print a 3×3 grid of asterisks (*).

3. Generate a multiplication table (1-10) for numbers 1 through 5.

4. Print all pairs of numbers (i, j) where 1 ≤ i, j ≤ 3.

Pattern Designs:

1. Print a right-angled triangle of stars with 5 rows.

2. **Number Patterns**: Write a program to print patterns of numbers, such as the number pyramid or the following sequence: 1, 12, 123, 1234, 12345.

3. Print the below pattern

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

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

4. Print the below pattern

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

5. Patterns questions