

# Assignment - 1

## Topic: Basic Square Patterns (Nested Loops)

### Instructions:

1. Take input  $n$  from the user wherever required.
2. Do a **dry run on paper first** before coding.
3. **Identify:**
  1. **What does the outer loop represent?**
  2. **What does the inner loop represent?**
4. **Do NOT copy from chatGPT / friends — focus on understanding.**

### Q1) Print an $n \times n$ Star Square

Take a dynamic input from the user and print an  $n \times n$  square.

#### Example:

If  $n = 4$

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

## **Q2) Print the Following Pattern**

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

## **Q3) Print the Following Pattern**

For  $n = 4$

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

**Submit:**

1. Code
2. Dry run for  $n = 3$
3. Short explanation:
  - What does outer loop represent?
  - What does inner loop represent?

**YENJOYY !!**