Lesson:

Java

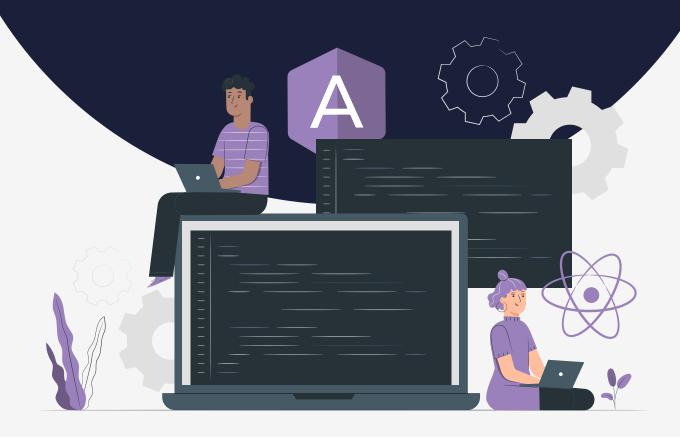## Pattern programs

List of Topics Involved:

- System.out.print() vs println()
- Pattern programs
- Nested loops
- If else and nested loops to write complex patterns

System.out.print() vs println()

The following functions are available in Java to print anything to the console.

However, there is a tiny distinction between the two of them, namely
System.out.print(): print() retains the cursor in the same line after printing the argument, while
System.out.println(): println() It moves the cursor to the next line.

Simple example for print() and println() statements

Ex: class Demo
```
{
    public static void main(String[] args)
    {
        System.out.println("Welcome to pattern programs");

         // this print statement will be printed in a new line.
        System.out.print(" Hi ");

         // this print statement will be printed in the same line.
        System.out.print("Hello");
    }
}
```

Output:
Welcome to pattern programs
Hi Hello