

LU2 - ASSIGNMENT

Instructions:

Step1: Create a Java project

1. Create a java project and name it with your registration number and class.
2. Suggested project name (*format: [24rp00000_{b/c}]*)

Step 2: Create a Package

1. Create a new package for organization.
2. Suggested package name (*format: [regno.itlevel6y2{b/c}.nestedloop]*). Use lowercase letters for package names to follow Java conventions.

Step 3: Create a Java Class

1. Inside the package, create a new class.
2. Suggested class name: *[StarPatterns]*

Step 4: Submit the project (project zipped folder)

- This folder consists of only 2 files including Java file (*StarPatterns.java*) and java class file(*StarPatterns.class*)

Task:

Refer to the following exhibit of star patterns and write a Java program to generate each pattern.

Patterns to generate:

1. Solid rectangle

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

2. Right-aligned hollow triangle

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

3. Inverted left-aligned triangle

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

4. Left-aligned triangle

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

5. Inverted right-aligned triangle

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

6. Right-aligned triangle

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

Requirements:

1. The program should accept the number of rows from the user.
2. Display a menu with 6 options (corresponding to the patterns above).
3. Print the selected star pattern.

Good Luck!