

Day 13

Question 1

Java program to print Floyd's triangle

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
16 17 18 19 20 21
```

Question 2

A number n is called Sunny number if the next number $(n+1)$ is a perfect square number. For example, 15 is a Sunny number because $15+1=16$ is a perfect square number.

Question 3

Guessing Game Program - Write a program to:

- Generate a random number.

```
// Generate a random number
import java.util.Random;

Random random = new Random();
int n = random.nextInt(10);
```

- Ask a user to input a number.
- Check if the input number is equal to the random number.
- Repeat until the user enters a correct number.
- Print the total incorrect attempts by user.
- **Calculate and print the total time taken to guess the correct number**
- Use try-catch to handle the exceptions like invalid inputs of string, decimal, etc.