DAY-6 TASK

1)Use a Hashset to store to a list of unique email address

```
import java.util.HashSet;

public class UniqueEmails {
    public static void main(String[] args) {

        String[] emails = {
            "abc@example.com",
            "xyz@example.com",
            "abc@example.com",
            "test@example.com",
        };
        HashSet<String> uniqueEmails = new HashSet<>();

        for (String email : emails) {
            uniqueEmails.add(email);
        }
        System.out.println("Unique email addresses:");
        for (String email : uniqueEmails) {
            System.out.println(email);
        }
    }
}
```

Output:

```
Unique email addresses:
test@example.com
abc@example.com
xyz@example.com
```

2)Use Hashmap to store student name mark and compute average

```
import java.util.HashMap;

public class StudentAverage {
    public static void main(String[] args) {
```

```
        HashMap<String, Integer> marks = new HashMap<>();

        // Adding student marks
        marks.put("John", 80);
        marks.put("Emma", 90);
        marks.put("Alex", 70);

        int total = 0;
        for (int mark : marks.values()) {
            total += mark;
        }

        int average = total / marks.size();
        System.out.println("Average marks: " + average);
    }
}
```

Output:

Average marks: 80

3)Create a thread by extending the Thread class to print number 1 to 100

```
class NumberPrinter extends Thread {
    public void run() {
        for (int i = 1; i <= 100; i++) {
            System.out.println(i);
        }
    }
}

public class Main {
    public static void main(String[] args) {
        // Create an object of the thread class
        NumberPrinter thread = new NumberPrinter();

        // Start the thread
        thread.start();
    }
}
```

Output:
2

3
4
5…100