

# Rajalakshmi Engineering College

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q8

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### Section 1 : Coding

##### 1. Problem Statement

A bank generates secure codes using 3-digit numbers where each digit is unique, and the code must be divisible by 3. You are tasked with generating the first N such codes based on user input, ensuring the digits are unique and the number is divisible by 3.

Note: Use nested for loops to solve.

##### ***Input Format***

The first line contains an integer N representing the number of valid codes to generate.

##### ***Output Format***

The output prints N lines, each line contains a valid 3-digit code.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 5

Output: 102

105

108

120

123

### **Answer**

// You are using Java

```
import java.util.Scanner;
```

```
class main{
```

```
    public static void main(String arg[]){
```

```
        Scanner n=new Scanner(System.in);
```

```
        int a=n.nextInt();
```

```
        int c=0;
```

```
        for(int j=100;j<=999&& c!=a;j++){
```

```
            if(j%3 == 0){
```

```
                if( (j%10 != (j/10)%10) && (j%10 != (j/100)%10) && ((j/10)%10 !=  
(j/100)%10) ){
```

```
                    System.out.println(j);
```

```
                    c++;
```

```
                }
```

```
            }
```

```
        }
```

```
    }
```

```
}
```

**Status :** Correct

**Marks :** 10/10