

# Rajalakshmi Engineering College

Name: NEIL DANIEL A

Email: 240701356@rajalakshmi.edu.in

Roll no: 240701356

Phone: 8925059757

Branch: REC

Department: CSE - Section 10

Batch: 2028

Degree: B.E - CSE

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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**

```
import java.util.Scanner;
class Main{
    public static void main(String[] args){
        Scanner scan = new Scanner(System.in);
        int n=scan.nextInt();
        for(int i=100;n>0;i++){
            if(i%3==0){
                boolean flag = true;
                int temp = i;
                for(int x=0 ; x<3 ; x++){
                    int k = temp%10;
                    int temp2= temp/10;
                    while(temp2>0){
                        if(k==(temp2%10)){
                            flag = false;
                        }
                        temp2 = temp2/10;
                    }
                    temp = temp/10;
                }

                if(flag){
                    n--;
                    System.out.printf("%d\n",i);
                }
            }
        }
    }
}
```

}  
}  
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**Status :** Correct

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**Marks :** 10/10

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