

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

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

```
class Solution {
```

```
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);  
        int N = scanner.nextInt();  
        int count = 0;
```

```
        for (int i = 1; i <= 9; i++) {  
            if (count == N) {  
                break;  
            }
```

```
            for (int j = 0; j <= 9; j++) {  
                if (count == N) {  
                    break;  
                }
```

```
                for (int k = 0; k <= 9;  
k++) {  
                    if  
(count == N) {  
                        break;  
                    }
```

```
                    if (i != j && i != k && j != k) {
```

```
int number= i * 100 + j * 10 + k;  
    if (number % 3 == 0) {  
        System.out.println(number);  
        count++;  
    }  
}
```

Status : Correct

Marks : 10/10