

Rajalakshmi Engineering College

Name: Dharshan UJ
Email: 240701811@rajalakshmi.edu.in
Roll no: 240701811
Phone: 9025494910
Branch: REC
Department: CSE - Section 6
Batch: 2028
Degree: B.E - CSE

Scan to verify results



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.*;
class securecode

{

    public static void main(String[] args)

    {

        Scanner sc = new Scanner(System.in);
        int N = sc.nextInt();
        int count = 0;

        for (int i = 1; i <= 9; i++)

        {

            for (int j = 0; j <= 9; j++)

            {

                if (j == i) continue;
                for (int k = 0; k <= 9; k++)
```

```
{  
    if (k == i || k == j) continue;  
    int num = i * 100 + j * 10 + k;  
    if (num % 3 == 0)
```

```
{  
  
    System.out.println(num);  
    count++;  
    if (count == N) return;
```

```
}
```

```
}
```

```
}
```

```
}
```

```
}
```

```
}
```

Status : Correct

Marks : 10/10