

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 line,s 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 in = new Scanner(System.in);
        int a = in.nextInt();
        int b = 102;
        for(int i = 0;i < a;)
        {
            if((b%10!=(b/10)%10&&(b/10)%10!=(b/100)%10) && (b%10!
            =(b/100)%10) )
            {
                System.out.println(b);
                i++;
            }
            b = b + 3;
        }
    }
}
```

Status : Correct

Marks : 10/10