

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[] args)
    {
        int n,count=0,a=102,b,c,d;
        Scanner sc=new Scanner(System.in);
        n=sc.nextInt();
        while(count<n)
        {
            b=a/100;
            c=(a/10)%10;
            d=a%10;
            if(a%3==0 && b!=c && c!=d && d!=b)
            {
                System.out.println(a);
                count+=1;
            }
            a+=1;
        }
    }
}
```

Status : Correct

Marks : 10/10