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

```java
import java.util.Scanner;
class Divisiblity
{
    public static void main(String[] args)
    {
        int n,num;
        Scanner sc=new Scanner(System.in);
        n=sc.nextInt();

        int count=0;
        for (int i=1;i<10;i++)
        {
            for (int j=0;j<10;j++)
            {
                for (int k=0;k<10;k++)
                {
                    if( i != j && j != k && i != k){
                        num = i * 100 + j * 10 + k;
                        if (num % 3 == 0){
                        System.out.println(num);
                        count += 1;

                        }
                    }
                    if (count == n)
                    break;
                }
```

```
        if (count == n)
        break;
    }


  }



 }
}
```

Status : Correct　　　　　　　　　　　　　*Marks : 10/10*