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
// You are using Java
import java.util.Scanner;
public class Main
{
    public static void main(String[] args)
    {
    Scanner sc=new Scanner(System.in);
    int a=sc.nextInt();
    int c=0;
    for(int i=100;i<=999;i++)
    {
        if(c<a)
        {
            if(i%3==0)
            {
                if(i%10!=i/100&&i%10!=(i/10)%10&&i/100!=(i/10)%10)
                {
                    System.out.println(i);
                    c++;
                }

            }
        }
            else
            {
                break;
            }
```

```
        }
    }

}
```

Status : Correct   *Marks : 10/10*