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.*;

class sample{
    public static void main(String args[])
    {
        Scanner scan= new Scanner(System.in);
        int n=scan.nextInt();
        int count=0;
        for(int i=102;i<1000;i++)
        {
            if(i%3==0){
                int ans=0,temp=i;
                int a=temp%10;
                temp/=10;
                int b=temp%10;
                temp/=10;
                int c=temp%10;
                temp/=10;
                if(a!=b && b!=c && c!=a)
                    ans=1;
                if(ans==1){
                    System.out.println(i);
                    count++;
                }
            }
            if(count==n){
```

```
            break;
        }
    }
}
```

Status : Correct   **Marks : 10/10**