Rajalakshmi Engineering College

Name: Nivedhitha K
Email: 240701371@rajalakshmi.edu.in
Roll no: 240701371
Phone: 9790413580
Branch: REC
Department: CSE - Section 10
Batch: 2028
Degree: B.E - CSE

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;
class classname
{
    public static void main(String[] args)
    {
    Scanner sc= new Scanner(System.in);
    int N=sc.nextInt();
    int count=0;
    for(int i=1;i<=9;i++)
    {
      for(int j=0;j<=9;j++)
      {
        if(i==j)
           continue;
        for(int k=0;k<=9;k++)
        {
          if(k==i||k==j)
          {
             continue;
          }
          int num=i*100+j*10+k;
          if(num%3==0)
          {
             System.out.println(num);
             count++;
          }
```

```
        if(count==N)
        {
            return;
        }
    }
}


}
}
}
```

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