Rajalakshmi Engineering College

Name: Harri CSE FB
Email: 240701178@rajalakshmi.edu.in
Roll no: 240701178
Phone: 6385674263
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
import java.util.Scanner;
class main{
    public static void main(String args[]){
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        int count=0;
        for (int i=1;i<=9;i++){
            for (int j=0;j<=9;j++){
                for (int k=0;k<=9;k++){
                    if(i!=j && j!=k && i!=k){
                        int  num=1*100+j*10+k;
                        if (num%3==0){
                            System.out.println(num);
                            count++;
                            if(count==a){
                                return;
                            }
                        }
                    }
                }
            }
        }
    }
}
```

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