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 d{
    public static void main(String args[]){
    Scanner s= new Scanner(System.in);
    int a=s.nextInt();
    int count =0;
    int i=0;
    int j=0;
    int k=0;
    for( i=1;i<=9;i++){

        for(j=0;j<=9;j++){
            if(j!=i){
            for(k=0;k<=9;k++){
                if(k!=i && k!=j){
                int c=100*i+10*j+k;
                if(c%3==0){
                System.out.printf("%d\n",c);
                count++;}
            }
            if(count==a){
                return;
            }
        }
        }
    }
    }
```

}}}

Status : Correct   **_Marks : 10/10_**