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.io.*;
import java.util.Scanner;
class Main{
    public static void main(String[] args){
        Scanner in=new Scanner(System.in);
        int a=in.nextInt();
        int i=101,count=0;
        while(count<a){
            if(check(i)%3==0 && isunique(i)){
                System.out.println(i);
                count+=1;
            }
            i++;
        }
    }
    static int check(int z){
        int sum=0,digit;
        while(z>0){
            sum+=z%10;
            z/=10;
        }return sum;
    }
    static boolean isunique(int y){
        int a=y%10;
        y/=10;
        int b=y%10;
```

```
y/=10;
int c=y%10;
if(a!=b && a!=c && b!=c){
    return true;
}
else{
    return false;
}

  }
}
```

Status : Correct   *Marks : 10/10*