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
import java.util.*;

class main{
    public static void main(String[] args)
    {
        Scanner sc= new Scanner(System.in);

        int n=sc.nextInt();

        int c=0;
        for(int i=101; i<=999; i++)
        {

            if(i%3==0){

                String s=String.valueOf(i);
                if((s.charAt(0) != s.charAt(1))&&(s.charAt(0)!=s.charAt(2))&&
(s.charAt(1)!=s.charAt(0)) && (s.charAt(1)!=s.charAt(2)))
                {

                    c++;
                    if(c==n+1)
                    {
                        break;
                    }
                    System.out.println(i);
```

```
            }
        }

        }
      }
    }
```

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