

Rajalakshmi Engineering College

Name: jayaraman S
Email: 240701210@rajalakshmi.edu.in
Roll no: 2116240701210
Phone: 9080708226
Branch: REC
Department: CSE - Section 5
Batch: 2028
Degree: B.E - CSE

Scan to verify results



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 lines, 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

```
import java.util.*;
public class Main{
    public static void main(String[] args){
        Scanner ip=new Scanner(System.in);
        int n=ip.nextInt();
        int count=0;
        for(int i=102;i<=999;i++){
            int d1=i%10;
            int d2=(i/10)%10;
            int d3=(i/100)%10;
            if((i%3==0) && (d1!=d2 && d1!=d3 && d2!=d3)){
                System.out.println(i);
                count++;
                if(count==n){
                    break;
                }
            }
        }
        ip.close();
    }
}
```

Status : Correct

Marks : 10/10