

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 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.Scanner;

class unique
{
    boolean uni(int n)
    {
        int d1=0;
        int d2=0;
        int d3=0;
        d1 = n%10;
        n /= 10;
        d2 = n%10;
        n /= 10;
        d3 = n%10;

        return ((d1 != d2) && (d2 != d3) && (d3 != d1));
    }
}

class Main{
    public static void main(String[] args)
    {
        Scanner scan = new Scanner(System.in);
        unique u = new unique();
        int n = scan.nextInt();
        int r = 100;
```

```
int c = 0;
while(c != n && r < 999)
{
    if((r%3 == 0) && u.uni(r))
    {
        System.out.println(r);
        c++;
    }
    r++;
}
}
```

Status : Correct

Marks : 10/10