**Lab Practical #15:**

Implementation of parity bit check Using C/Java language with example.

**Practical Assignment #15:**

**C/Java Program: Implementation of Bit stuffing Using C/Java language.**

1. **Enter the binary data: 011111101111110**

**Bit-stuffed data: 01111101011111010**

1. **Enter the binary data: 111110111111**

**Bit-stuffed data: 1 1 1 1 1 0 0 1 1 1 1 1 0 1**

import java.util.Scanner;

public class BitStuffing {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter the binary data: ");

String data = sc.nextLine();

StringBuilder stuffedData = new StringBuilder();

int count = 0;

// Perform Bit Stuffing

for (int i = 0; i < data.length(); i++) {

char bit = data.charAt(i);

stuffedData.append(bit);

if (bit == '1') {

count++;

if (count == 5) {

stuffedData.append('0');

count = 0;

}

} else {

count = 0;

}

}

System.out.println("Bit-stuffed data: " + stuffedData);

sc.close();

}

}