**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**

* **Code: -**

#include <stdio.h>

#include <string.h>

int main() {

char data[100], stuffed[200];

int i, j = 0, count = 0;

printf("Enter the binary data: ");

scanf("%s", data);

for (i = 0; i < strlen(data); i++) {

stuffed[j++] = data[i];

if (data[i] == '1') {

count++;

if (count == 5) { // After 5 consecutive 1s, stuff a 0

stuffed[j++] = '0';

count = 0;

}

} else {

count = 0;

}

}

stuffed[j] = '\0';

printf("Bit-stuffed data: %s\n", stuffed);

return 0;

}