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**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**
2. 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;
}
```