CS 359
COMPUTER NETWORK LAB
ASSIGNMENT 7

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1. Write a program for error detection and correction for ASCII codes using Hamming Codes.

```
sachan@CLOUD-DESK:~/Documents/VI Semester/CS358/Lab/Lab 7$ g++ p1.cpp -o
p1
sachan@CLOUD-DESK:~/Documents/VI Semester/CS358/Lab/Lab 7$ ./p1
Number of bits: 11
Enter delivered hamming code: 1 0 1 0 1 0 0 1 1 1 0
No error.
Correct data: 89
```

```
sachan@CLOUD-DESK:~/Documents/VI Semester/CS358/Lab/Lab 7$ ./p1
Number of bits: 11
Enter delivered hamming code: 1 0 1 0 1 1 0 1 1 1 0
Error at :6
```

2. Write a program for error detection and correction for ASCII codes using CRC(Cyclic Redundancy Code).

```
sachan@CLOUD-DESK:~/Documents/VI Semester/CS358/Lab/Lab 7$g++ p2.cpp -o
p2
sachan@CLOUD-DESK:~/Documents/VI Semester/CS358/Lab/Lab 7$ ./p2
Enter data (in bits): 100100
Enter key (in bits): 1101
Encoded Data: 100100001
Encoded data received (in bits): 100100001
Correct encoded data.
```

```
sachan@CLOUD-DESK:~/Documents/VI Semester/CS358/Lab/Lab 7$./p2
Enter data (in bits): 100100
Enter key (in bits): 1101
Encoded Data: 100100001
Encoded data received (in bits): 100110001
```