**Q1. Send 24 using hamming code?**

Step1: convert 24 to binary code.

Step2: check 2^r>=m+r+1 for how many paritebits .

Step3: then check the peritebits.

Step4: insert the paritebits in the code.

The code is **111001010**

**Q2. checksum code 10111101?**

Step1: divide the number as per the give number.

Step2: add them.

Step3: take the complement of the answer.

To check add the given code and the answer.

The code is **0110**

**Q3 crc 11010011101100 polynomial 1011?**

Step1: add three zero to the given code.

Step2: divide the code by the give code.

The code is **100**