# Bitwise Operators Assignment

**Mandatory**

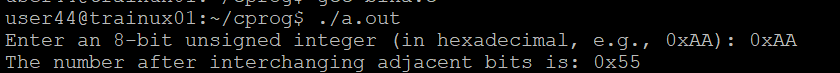
Q1. WAP to read a 8 bit unsigned integer, interchange the adjacent bits i.e D0  with D1, D2 with D3….. D6 with D7.  Display the final number.

Input: 0xAA

Output: 0x55

A screenshot of a computer program

Description automatically generated



Q2. WAP to count the number of 1’s in a given byte and display

A computer screen shot of a program

Description automatically generated

A black background with white text

Description automatically generated

Q3. Generate odd and even parity bits for a given number. (consider a 32 bit number)

[Hint: You may reuse the solution created in Q2 and extend it further]

A screenshot of a computer program

Description automatically generated

A screenshot of a computer

Description automatically generated

Q4. WAP to reverse the bytes in a 32 but unsigned integer using shift operator.

Input: 0x12345678

Output: 0x78563412

A computer screen shot of a code

Description automatically generated

