Homework 04 - Due on April 24th

1. Write an ARM Assembly program to check a bit stream for even parity.
   a) Accept a seven-bit binary number in HEX format in R1.
   b) Find the even parity for the number.
   c) Append the parity bit as the least significant bit with the seven-bit number store it in R3.

Example

R1 = 0x4E

Equivalent binary is 01001110 ,calculate even parity => count number of 1s if even append '0' as least significant bit else append '1' as least significant bit.

Here its even so the final number stored will be 010011100 , R3 = 0x9C

File to upload in Moodle:

Submit the ARM file with, Name, Time taken for the program and code, in Moodle before the due date.