**DOCUMENTATION**

**LAB 2**

The objective of this lab is to write two assembly language routines called “hamming” and “div”.

The hamming code will return the 4-bit corrected data word encoded by the 8-bit double error detecting and single error correcting Hamming code which will be passed into the routine.

The 8-bit hamming code is passed using the r0 register into “hamming” and 4-bit encoded data is returned. If the data is greater than 8 bit then -1 will be returned by the register r0.

The “div” routine will return the quotient of the value passed in register r0.

R0= dividend

R1= divisor

All the values are unsigned integers and values will be returned in register r0.

( divison of work ??? )

Flowchart

Hard copy of codes ! ( skeleton..wrapper )//