**ASSIGNMENNT 02**

**INSTRUCTION:**

1. **Submit your assignment as a single pdf file containing all the images and programs.**
2. **For each question (where it is stated), attach keil program image and the file name should contain your name and assignment and question no, e.g ‘HumaA2Q1.asm’.**
3. **Where memory window image is asked for, attach program image and memory window image separately so its zoomed (readable) instead of sharing the whole screen image of Keil.**
4. **Do mention comments in each of your program**

Q1. **Compile and state the content of each ROM location for the following data in a table. Also, attach the image of the Keil assembler after program run specifically showing the contents of memory window.**

ORG 200H

DATA1: DB “CSC 304”

DATA2:DB “Assignment #2”

DATA3: DB “Spring 20-21”

**Q2. Write a program to generate a wave with 50% duty cycle on bit p2.1. The delay subroutine creates the delay of 10usec. Write and compile the code using the assembler for DS89C450 with 11.0592 MHz frequency. Attach the Keil assembler program image and the logic analyzer window image showing the clock pulse.**

**Q3. Write a program to create a 70 KHz square wave on P1.0. The clock Frequency is 11.0592 MHZ for DS89C450. Attach the Keil assembler program image and the logic analyzer window image showing the clock pulse.**