# Mini Project

EKT222 Sem 2 2020/2021

#### General Description

- 1. A group project.
  - 1 group should not have more than 5 students.
  - Members of group can be from different Lab group.
  - 1 group will work on one project title do not change title after your title is logged in the mini project title.
  - Group project title must not be the same with other group's title. (mini project title log form will be provided)
  - Expected 32 groups, in which the viva will consume 6 HRS( One day)- planned on WW14.
- 2. Open end project you can propose your own project title but must fulfill the minimum requirements of mini project.

Minimum requirements:

- Use only My1SIM85 simulator program and Assembly Language
- 16KB RAM and 16KB ROM
- 3 PPI 8255
- 1 key pad
- 4 seven segment
- 1 port of switch
- 1 port of LED
- 1 interrupt

3. Assessment – online live presentation

#### Method:

- Power point presentation 3 minutes
- My1SIM85 live demo 5 minute
- Q&A 2 minutes

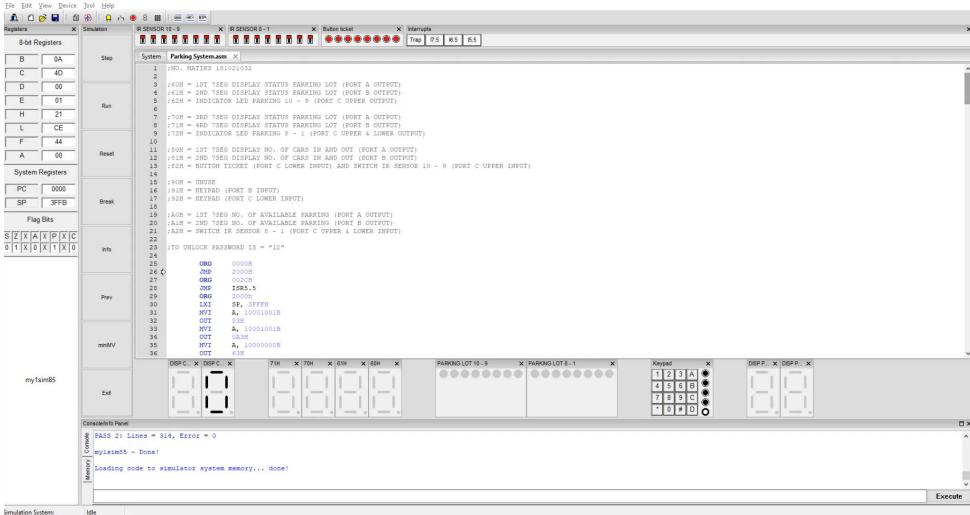
#### Criteria:

- Theory of basic Microprocessor Architecture.
- Problem analysis, propose solution and use computer programming for application development to solve the problem.
- Microprocessor system design.

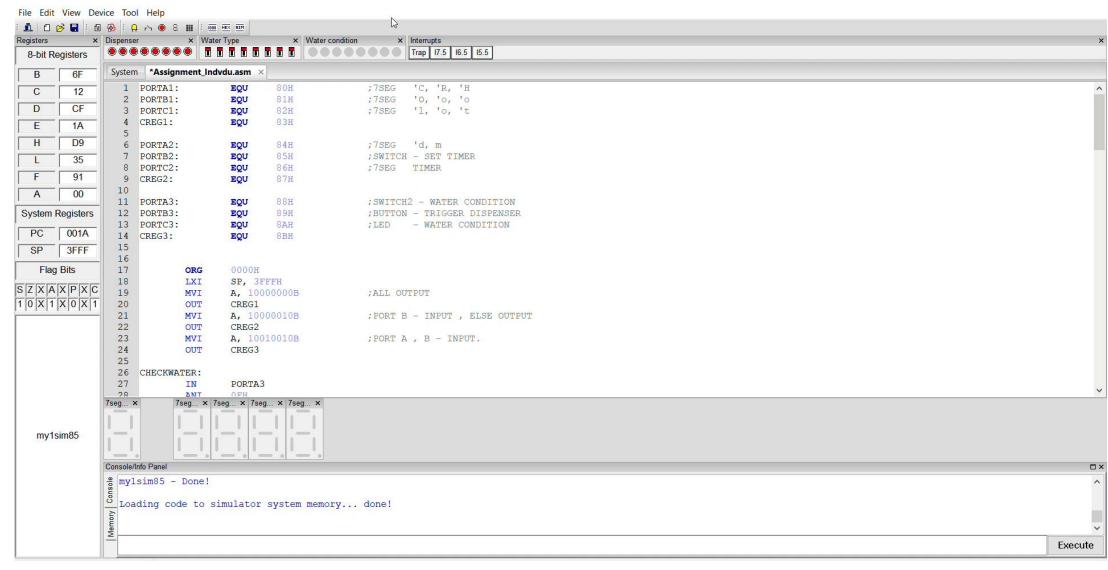
Assessment will be guided by a rubric which will be available for you to review soon

4. All members must participate in the presentation and demo. Each member must introduce yourself first before continue with presentation. If there is a member of the group do not participate at all, there will be penalty on the overall mark.

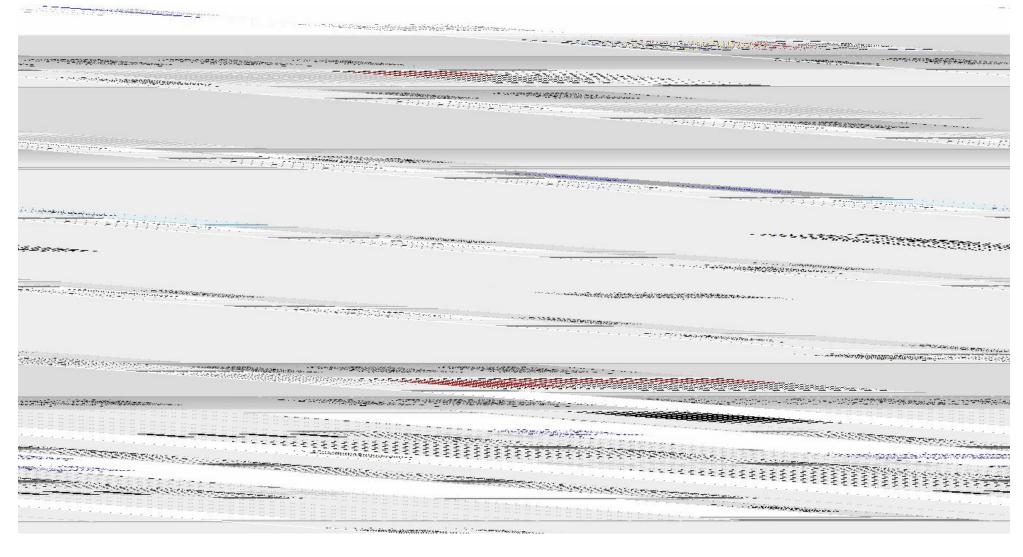
### Example project –sample 1.



### Example project –sample.



## Example project –sample 3



#### Example project –sample 4



#### Discussion Topic

• Discuss about Microprocessor and Microcontroller, describe their differences, advantage and disadvantage. Do write your own opinion on which one is your preference and why?