Final Project

# Please don’t panic

It is going to be alright. I just want you to submit a MARIE program as the final project. This time I like you to have the freedom to pick what program you want to write. My goal is to make you realize the limitations of the MARIE computer but at the same time explore the potential of the MARIE computer. With almost zero effort you can score at least 50% of the grade.

# Submission format

I am expecting two files: 1) PDF file explaining the details of MARIE program you developed in a research paper format (the format details are already uploaded in the content section and was explained in one of the lectures) 2) MARIE program.

# Grading strategy

The grading format for the MARIE program and the report is given below.

## Project Report

**Table 1 Project report grading details**

|  |  |
| --- | --- |
| Format | 50% |
| Presentation | 50% |

**Format**: Please follow the format that is provided. I would just submit the template PDF that is available in the “contents” section of D2L instead of submitting a very detailed report in a different format.

**Presentation**: I am looking for the answers of five different questions in this section. Please watch the video from the D2L in which I explained what is expected from the report.

### Motivation, Why you decided to write this program?

### Related works, What are the related works that you can think of about this project

### Design, What were the key implementation challenges for this project?

### Running the project, How can I run your project and see the project in action?

### Future works, What are the possible future works that can be done?

## Project code

1. **Table 2 Project codet grading details**

|  |  |
| --- | --- |
| Compile | 50% |
| Innovation | 25% |
| Implementation | 25% |

**Compile**: Please submit only the code that compiles. I would just submit one of the MARIE examples I provided earlier in the course instead of submitting a “in progress” (code that doesn’t compile) version of a very advanced algorithm. I am giving this option so every student at least make 50% of the grade in the project.

**Innovation**: I am looking for how innovative is your project idea

**Implementation:** I am looking for how you implemented the solution. Specially I am checking whether

### Are the operations optimal?

### Is the memory usage optimal?