Naziia Raitova – Work Journal

Milestone 1

December 19th, 2023

- Collaborated with the team during scheduled class sessions, established communication channels, and determined the meeting schedule.

December 21st, 2023 (~2 h)

- Created the instruction set using Excel.
- We checked what kind of instructions we need and drafted the core instruction format with six different types. We also brainstormed on how to address issues such as including larger immediates and branches.
- Brainstormed to discuss and refine the register concepts.
- We made a list of registers and created a memory map, allocating space for text, data, and any special addresses required by our design.
- Added pages 1 - 3.

December 28th, 2023 (~1 h)

- Met with Luke via Teams. Luke and I wrote the Euclidean Algorithm in the google doc (+ comments).
- Luke and I went through the instruction set one more time to make sure we have everything we need.
- Added a few new instructions to make it work. Made some changes in the google doc.
- Added pages 5 - 9.

January 9th, 2024 (~2.5 h)

- We went through our Euclid's Algorithm assembly code to make sure we have everything right.
- I wrote the fragments in C and assembly code (+ comments).
- We then translated our assembly programs to the machine code, including 'relprime' and the fragments. Addresses and a machine code column were added to the Excel sheet.
- I focused on translating the 'gcd,' 'gcd_loop,' and a portion of the 'relPrime' functions.
- Tulsi, Luke, and I collaborated on translating the fragments' code into machine code.
- Added pages 9 - 11.