Lab4_AI23BTECH11024_AI23BTECH11017

1   Intro

Lab4_AI23BTECH11024_AI23BTECH11017 is a tool designed to replicate the simulator like ripes .
Main goal is to run given RV64I assembly code accordingly with updating the registers and memory accordingly.

2   Contents of the Archive

The compressed folder `Lab4_AI23BTECH11024_AI23BTECH11017.zip` has the following files:

1. **.h, .c files**: Files for different functionalities and each contains its unique functions .

2. **Makefile**: Compiles the C code and generates an executable named `riscv_sim`.

3. **README.pdf**: Provides brief information about the archive and usage instructions.

4. **Report.pdf**: Contains details about the development process.

3   Usage

Follow these steps to use the project:

1. Download the `Lab4_AI23BTECH11024_AI23BTECH11017.zip` file.

2. Extract the folder into a directory/folder.

3. Add the correspoding file (ex: `input.s`) file containing the assembly code to this folder.

4. Open a terminal and navigate to the extracted folder:
   `cd Lab4_AI23BTECH11024_AI23BTECH11017`

5. Compile the code using the following commands:

   > `make`

   > `./riscv_sim`

6. Now The commands like `load, regs, run, etc..` will be taken from the user, runs the command and gives the corresponding desired output .

7. Output is displayed in the terminal.