Instructions to Run Group B's Transformer Model on the Andromeda 1 HPC:

1. Download and unzip the "Binary CodeT5.zip" file

2. Upload the contents of the .zip file into Andromeda 1

3. Request a interactive GPU with:

    a. "Interactive -G 1 -p gpua100"

4. In terminal run

    a. "module load miniconda3/miniconda"

5. Next create a virtual environment with:

    a. "conda create -n env python=3.10"

6. Now, activate this environment with:

    a. "conda activate env"

7. Now, pip install the required libraries with:

    a. "pip install pandas torch transformers time scikit-learn json"

8. Now, the script can be run with:

    a. "python T5_train_bin.py"

9. Once training is complete, the test script can be ran with:

    a. "python T5_test_bin.py"

10. Output log files will be created by each script and saved into the working folder

11. Then in terminal use:

    a. "sbatch bin_job.sl" for the train code if desired to run entirely for 10 hours

    b. The test code can be run on an interactive GPU and should finish in about. 15 minutes