Python version: 3.6.5

**Instructions:**

**Please note:** Ideally the Block Mining Program should always be run before the Transaction Recording Program as this is the way the programs were designed to interact.

Block Mining Program (BMP):

1. Press [q] if you wish to quit the program, otherwise press any key to continue
   * Once you press to continue, the Transaction File will automatically be created, and you will now be prompted to start the TRP program to enter a new transaction. The program will then return you to Step 1 where you may respond to the prompt again.
     + **Please note:** If you do not use the TRP program to enter the first transaction you will not be able to proceed any further into the program
   * In the event of no previous blocks existing in the BlockChain file, the program will automatically create a first block to build the block chain upon.
2. Press [q] if you want to return to the main menu, or press Enter (or any key) to continue with the file monitoring
   * If it is the first transaction entry, the program will detect the new transaction and automatically create the new block, perform the block mining, and add the new block to the block chain
     + Once this process is complete it will return you to Step 2 where you can respond to the prompt as you wish
   * If it is not the first transaction, the program will now routinely monitor the Transaction File, checking for updates every 15 seconds – you can use the TRP at any point to create new transactions.
     + When a new transaction is detected, the program will then automatically create the new block, perform the block mining, and add the new block to the block chain.
     + Once this process is complete it will return you to Step 2 where you can respond to the prompt as you wish

Transaction Recording Program (TRP):

1. Press [q] if you wish to quit the program, otherwise press any key to continue
2. Press [y] to begin a new transaction, or press [n] to return to the main menu
   * Selecting [n]:
     + You will be asked to confirm whether you wanted to quit to the menu – press [y] to quit or press [n] to return to Step 2 where you may respond to the prompt again
   * Selecting [y]:
     1. Enter your username (input **must** be alphabetic characters ONLY and NO SPACES)
     2. Enter the recipient’s name (input **must** be alphabetic characters and NO SPACES)
     3. Enter the amount you wish to send (input **must** be numeric characters and NO SPACES)
     4. The program will now save the transaction details to the Transaction File.txt and automatically return to Step 2 where you can respond to the prompt how you wish