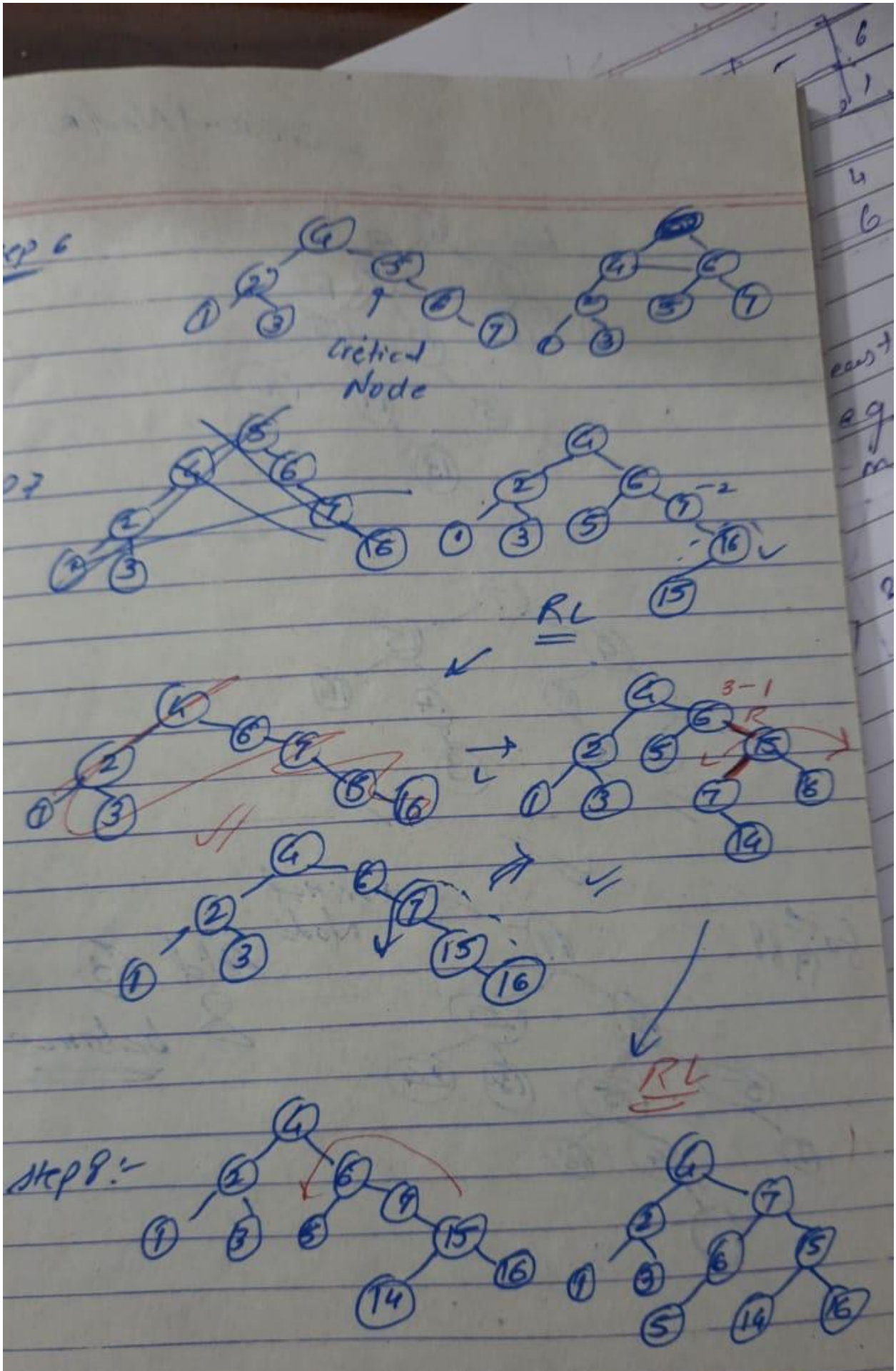
CS2323 Assignment 2: Binary Search Trees:

In continuation of the same problem as the previous assignment, your friend knows that you like music very much. So s/he gifts you a **file** with a collection of songs. The file contains the preorder traversal of a binary search tree, where the key is the *song name* as before. The search order is lexicographic order.

- By reading the file **(5 marks)**, you have to construct **(10 marks)** the unique binary search tree that is yielded from the traversal. This will be your new "library" instead of the linked list that you created in the previous assignment.
- You want to ensure that the library of songs does not contain some songs that you hate. Delete them from the binary search tree **(10 marks)**.
- "Create playlist" as an AVL tree **(10 marks)**. Implement "Delete from Playlist" also, in case, you change your mind and want to delete some more songs after creating the playlist **(10 marks)**.
- "Play Next" is an inorder traversal of the AVL tree.
- "Play Recent k/End" as in the previous assignment, using the same data structure. **(5 marks, for integration effort)**

File format: <preorder>
Eg:

S4:S2:S5:S1:S6:S3


Critical Node
RL
RL
Step 8:-