**SSN College of Engineering, Kalavakkam**

**Department of Computer Science and Engineering**

**III Semester - CSE**

# UCS 1312 Data Structures Lab Laboratory

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| **Academic Year: 2019-2020** | **Batch: 2018-2022** |

**Exercise 7: Dictionary Application using AVL Tree**

Develop a dictionary application using AVL Tree. In the tree, each node consists of a word and its meaning. The dictionary application is menu driven and supports the following operations.

* 1. Insertion
  2. Display
  3. Search

The structure dictionaryADT consists of wordMeaning, left amd right children. The structure wordMeaning has the word and meaning. Implement the following methods.

* void insert(struct dictionaryADT \*D, struct wordMeaning x) – Insertion of a new word and meaning into dictionary
* void disp(struct dictionaryADT \*D) – Display the information about all the words and meanings (Hierarchically)
* void search(struct dictionaryADT \*D, char word[]) – Will search for a word and provides its meaning

Note:

In order to implement this dictionary application,

* It is necessary to create a file that has dictionaryADT and implementation of above-mentioned functions
* Another file will be created with only function prototypes
* One more file will be created to develop dictionary application that utilizes the dictionaryADT