SSN College of Engineering

Department of IT - A Section

Date of Assignment : 02.11.2022

Submission Deadline: 13.11.2022

Faculty In charge : P. Vasuki

Ex.No. 04

Abstract Class

Objectives:

1. **Learn Abstract Class**
2. **Revise Tree Data Structure**
3. **Revise Packages and Modules**

1. Create a Package BinaryTree
2. Implement the module (BinaryTree)Node
3. Abstract Class named BinaryTree which may import Node class and make use of it. Let the Binary Tree. The Tree module has the declaration of following functions
   a. CreateTree with List of iterable objects (list of size zero is also permitted)
   b. Insert an element in the tree
   c. Traversal of Tree on any order

4. Construct a Binary Search Tree class which implements all functions in the tree
5. Create an application which imports the package 'BinaryTree' for the given scenario
   a. Get the List of news strings are given with the tag of either Political or Sports with the date.
   b. Different category news are to be stored in different Tree objects. The applications should Display the news on Date 'x' of the category 'c'.
   c. News between the dates 'D1 and D2' of the category 'c'