Hunegnaw Chanie

Prof. Alexander

CMSC204

Design#5

Pseudocode

1. Create generic TreeNode class

Define the private fields: private T data, TreeNode <T> left child and right child.

Create constructor: default and non-default

Write setter and getters for left child of TreeNode<T> type

Write setter and getters for right child of TreeNode<T> type

Write setter and getters for data type.

Public void setData(T data)

Public T getData()

1. Create the morseCode class that implements the linkedConverster interface

Declare Private TreeNode<string> root tree field

Constructor for the class: public MorseCodeTree()

Setter and getter method for root

Public TreeNode< String> getRoot()

Public void setRoot(TreeNode< String> newNode)

Insert method the result to the position in the tree

Call addNode method

The addNode method it is the recursive method that adds elements to the position as code

This checks the validation

Check whether the code length equal to one, equal to dot or equal to dash

fetch method: public string fetch(string code)

fetchNode method: this is a recursive method that fetches data

and it checks wheather it is travers to left or right. Dot is traverse to left and dash to right

delete method, update method

buildTree method

arrayList<string> toArraylist method

1. class for morseCodeConverter

private instantiation

constructor

string convertToEnglish method for string code to convert morse code to english

String convertToEnglish method for filecode

print method for printTree

test class for testing at least the MorseCodeConverter. ConvertToEnglish method of string and file.