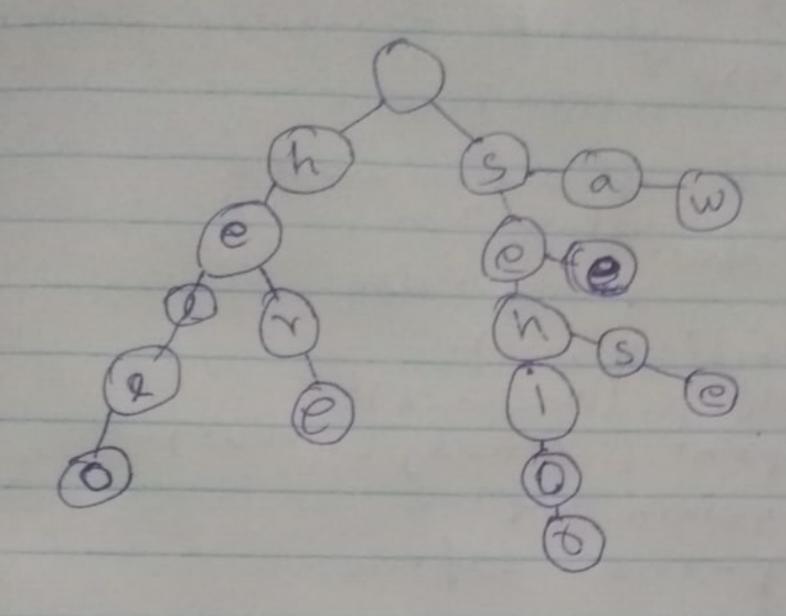
DAY-10 Trie -) a tree like structure where each node representa a dingk character of a given story. NoTE: * Unlike binary tree, a node can have moretran two children. to search complemitied can be broughto to optimal limit with Trie". => BST takes MlogN time m-man stringlen. => Trie = O(M). W-No. ofkey. but, more storage needed, If you exer wondered how you could type without spelling mistake, well, it's because

Implementation:



class Triect:

def_init_Gelf!:

self.-end='*'

self.trie = dict()

def_repr_-(self):

return repr(self.trie)

Let make Trie (self, * word):

trie = duct()

for word in word:

temp-duct = trie

fer letter in word:

temp-dict = temp-dict setdefult (letter,

temp-dict [self.-end] = self.-end

return trie.

det findWord (self, word): sub-trie = self. trie for letter in word: if letter in sub-tire!

sub-trie = sub-trie [letter] else jeturn False. else: if self. - end in subtrie: else: return False add Word (self, word): if self. find Word (word)! print [" Already Irukku"] return self. trie temp-trie = self.trie for letter inword! if letter in temp-trie: temp-trie-temp-trie [letter] temp_trie=temp_trie.setde femilt (letter, 53) tomp - trie [self .- end] = self .- end return temp-trie