Asgn 7 Pesign

Work flow

l. Work on trie.c

2. Work on word.c

3. Work on 10.c

4. TBP.

Trie . c

D Each Node has a children array, Size of 256 APABAt.

01((1)

the Index is the array could be empty.

2) Every time we try to put somethy in the Array.

Ex: Let' sony we want to pass in "a" uint 8-t value = 97.

So voit > children [97] = code

All other index will remain empty.

Pusedocode. Trie.h

```
trie - node - create:
        malloc (tre-node) 11 allocate mening for note
        malloc (trie - node > children) (/ allocate money
                                         for array.
 trie node - delete:
        free ( node) Il free tuis node only
                      II away remains still
 tire - create:
      malloc (voot) 11 first node in the tree,
                       has code of EMPTy code.
trie_veset
      for all childreni
         delete (childen) // delete all children except
                            tre note itself.
trie - delete
     for all children
         delete (children) 11 delete anidren
   free (voot) ( also delete this rest.
```

tire - step:

veture n > anildner [ sym]

veture the poster of this sym.

Word. C

word - create: ( avr: syms, len)

w > syms = syms 11 8yml 13 a long amony

w> len 1/ we need len to tell us

now many Tradeo of this amony

15 actually nery

word - append

WS Syms [len] = Sym 11 modify the last index

len +t 11 change hen so we know we modify the last monto-

word - delete:

free (w> syms) 11 delête the ownery free (w) 11 delête this about.

wt-create: maller (wt) 11 allocater menny for object mallor (wt-> array) // allocate memory for the away 11 Size of Mar - CoPE wt > array [0] = "" 11 mittative any return wt wt-reset i for 1 to word tolde. Size 11 déletre every ting wt-detete beside overay [2] wt. detete: for i in wordtable 11 free all word in table word - delete (i) free wt 11 free object