**TRIES IN DATA STRUCTURE**

#include<stdio.h>

#include<stdlib.h>

#include<string.h>

struct node

{

struct node \*child[26];

int data;

};

struct node \*root=NULL;

struct node \*create();

void ins(struct node \*root,char \*key);

int search(struct node \*root,const char \*str);

void main()

{

int i,l;

char str[][50]={"amma","appa","mani","pakkayam","bala"};

root=create();

for(i=0;i<(sizeof(str)/sizeof(str[0]));i++)

{

ins(root,str[i]);

}

for(i=0;i<(sizeof(str)/sizeof(str[0]));i++)

{

l=search(root,str[i]);

if(l==0)

printf("ooo\n");

else

printf("%s\n",str[i]);

}

}

struct node \*create()

{

int i;

struct node \*newnode=(struct node\*)malloc(sizeof(struct node));

for(i=0;i<26;i++)

{

newnode->child[i]=NULL;

}

newnode->data=0;

return newnode;

}

void ins(struct node \*root,char \*key)

{

int i,length,index;

struct node \*temp=root;

length=strlen(key);

for(i=0;i<length;i++)

{

index=key[i]-'a';

if(temp->child[index]==NULL){

temp->child[index]=create();}

temp=temp->child[index];

}

temp->data=1;

}

int search(struct node \*root,const char \*str)

{

int i,length,index;

length=strlen(str);

struct node \*temp=root;

for(i=0;i<length;i++)

{

index=str[i]-'a';

if(!temp->child[index])

return 0;

temp=temp->child[index];

}

return 1;

}

**OUTPUT:**

