Assignment – 19

Handling multiple Strings in C Language

1. Write a program to find the number of vowels in each of the 5 strings stored in two

dimensional arrays, taken from the user ?  
solve -

#include<stdio.h>

#include<string.h>

int main(){

char a[6][10];

int i,j,vowel=0;

printf("Enter the string ");

for(i=0; i<3; i++){

fgets(a[i],10,stdin);

}

for( i=0; i<3; i++){

for( j=0; a[i][j]!='\0'; j++){

if(a[i][j]=='a'|| a[i][j]=='e'|| a[i][j]=='i'|| a[i][j]=='o'|| a[i][j]=='u')

vowel++;

}

printf("%s = %d\n",a[i],vowel);

vowel = 0;

}

return 0;

}

Output –

nter the string sagar

damke

lohari

sagar

= 2

damke

= 2

2. Write a program to sort 10 city names stored in two dimensional arrays, taken from the user ?

Solve –

#include<stdio.h>

#include<string.h>

int main(){

char a[3][10],t[10];

int i,j;

printf("Enter the string ");

for( i=0; i<3; i++){

gets(a[i]);

}

for(i = 0; i<3; i++){

for(j=i+1; j<3; j++){

if(strcmp(a[i],a[j]) > 0)

{

strcpy(t,a[i]);

strcpy(a[i],a[j]);

strcpy( a[j],t);

}

}

}

for( i=0; i<3; i++)

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

return 0;

}

Output –

Enter the string sagar

damke

lohari

damke

lohari

sagar

3. Write a program to read and display a 2D array of strings in C language ?

Solve -

#include<stdio.h>

#include<string.h>

int main(){

char str[3][10]= {"sagar","damke"," lohari"};

int i=0;

for(i=0; i<3; i++){

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

}

return 0;

}

Output -

sagar

damke

lohari

4. Write a program to search a string in the list of strings ?  
solve –

#include<stdio.h>

#include<string.h>

int main(){

char str[3][10]= {"sagar","damke"," lohari"};

int i=0,flag=0;

for(i=0; i<3; i++){

if(strcmp(str[i],"sagar")==0)

flag=1;

break;

}

if(flag==1){

printf(" string search");

}

else{

printf("string not search");

}

return 0;

}

Output -

string search

5. Suppose we have a list of email addresses, check whether all email addresses have

‘@’ in it. Print the odd email out ?  
solve -

#include<stdio.h>

#include<string.h>

int main(){

char str[33][10];

int i, flag=0;

printf("Enter the string ");

for(i=0; i<3; i++){

gets(str[i]);

}

for( i =0; i<3; i++){

if(strchr(str[i],'@')!=0){

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

}

}

return 0;

}

Output -

Enter the string sagar@

sagar

damke

sagar@