Assignment-Solutions

(Handling Multiple Strings In C language)

Q-1

Ans-

/\*

WAP to count/find the number of vowels in each of the five Strings

Stored in two dimensional arrays,taken from the users

\*/

#include<stdio.h>

Int main()

{

Char a[5][30];

Char b[]=”aeiouAEIOU”;

Int I,j,count=0;

Printf(“Enter a string\n”);

For(i=0;i<=4;i++)

{

Gets(a[i]);

}

Printf(“Total number of vowels\n”);

For(i=0;i<=4;i++)

{

For(j=0;a[i][j];j++)

{

If(a[i][j]==b[i])

{

Count++;

}

}

}

Printf(“Vowels in string %d\n”,count);

Return 0;

}

Q-2

Ans-

/\*

Write a program to sort 10 city names stored in two dimensional array,

Taken from the user.

\*/

#include<stdio.h>

#include<string.h>

Int main()

{

Char str[10][20],s[20];

Int I,r,round;

Printf(“Enter 10 city names\n”);

For(i=0;i<=9;i++)

Gets(str[i]);

For(round=1;round<=10;round++)

{

For(i=0;i<=9-round;i++)

{

R=strcmp(str[i],str[i+1]);

If(r>0)

{

Strcpy(s,str[i]);

Strcpy(str[i],str[i+1]);

Strcpy(str[i+1],s);

}

}

}

Printf(“\nString in dictionary order\n”);

For(i=0;i<=9;i++)

{

Puts(str[i]);

}

Return 0;

}

Q-3

Ans-

/\*

Write a program to read and display a 2D array of string n c language

\*/

#include<stdio.h>

#include<string.h>

Int main()

{

Char str[3][15];

Int I;

Printf(“Enter 3 disticts names\n”);

For(i=0;i<=2;i++)

{

Gets(str[i]);

}

Printf(“\n”);

Printf(“Three disticts names\n”);

For(i=0;i<=2;i++)

{

Puts(str[i]);

}

Return 0;

}

Q-4

Ans-

/\*

Write a program to search/find a string in the list of strings

\*/

#include<stdio.h>

Int main()

{

Char names[5][6];

Char n[6];

Int I;

For(i=0;i<=4;i++)

{

Printf(“Enter names:\n”);

Gets(names[i]);

}

Printf(“\n”);

Printf(“Enter name to search\n”);

Gets(n);

For(i=0;i<=4;i++)

{

If(strcmp(names[i],n)==0)

{

Printf(“Found”);

Break;

}

}

If(i==5)

{

Printf(“Not found”);

}

Return 0;

}

Q-5

Ans-

/\*

Suppose we have a list of email address,check whether all email

Address have ‘@’ in it. Print the odd email out.

\*/

#include<stdio.h>

#include<string.h>

Int main()

{

Char str[3][30];

Int I;

For(i=0;i<=2;i++)

{

Printf(“Ente Email address\n”);

Gets(str[i]);

}

Printf(“\nTo check whether the email address are valid or not\n”);

Printf(“\n”);

For(i=0;i<=2;i++)

{

If(strchr(str[i],’@’)!=0)

{

Printf(“%s\n”,str[i]);

}

}

Return 0;

}

Q-7

Ans-

/\*

From the list of IP address, check whether all ip address are valid

\*/

#include<stdio.h>

#include<string.h>

Int main()

{

Char ip[] = “23.134.123.210”;

Char \*a= strtok(ip,”.”);

While(a !=NULL)

{

Int x=atoi(a);

If((x>=0) && (x<=255))

Printf(“%d “,x);

A=strtok(NULL,”.”);

}

Return 0;

}

Q-8

Ans-

/\*

Given a list of words followed by two words,the task is to find

the minimum distance between the given two words in the list of words

\*/

#include<stdio.h>

#include<string.h>

int main()

{

char words [4][20]={"My","Name","Is","Pradeep"};

char word1[]="My";

char word2[]="Pradeep";

int i,w1=-1,w2=-1,min=10000,temp;

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

{

if(strcmp(words[i],word1)==0)

w1=i;

if(strcmp(words[i],word2)==0)

w2=i;

if(w1!=-1 && w2!=-1)

{

temp=abs(w2-w1);

if(temp<min)

min=temp;

}

}

printf("%d",min-1);

return 0;

}

Q-9

Ans-

#include<stdio.h>

#include<string.h>

Int main()

{

Char str[3][30];

Char s[20];

Int I,allow=0;

Int fact=1;

Int num;

For(i=0;i<=2;i++)

{

Printf(“Enter your username\n”);

Gets(str[i]);

}

Printf(“\n”);

Printf(“Enter your username\n”);

Gets(s);

For(i=0;i<=2;i++)

{

If(strcmp(str[i],s)==0)

{

Allow=1;

Break;

}

}

If(allow)

{

Printf(“Enter any number\n”);

Scanf(“%d”,&num);

For(i=1;i<=num;i++)

{

Fact= fact\*I;

}

Printf(“Factorial of given number=%d”,fact);

}

Else

{

Printf(“Error message”);

}

Return 0;

}

Q-10

Ans-

/\*

Create an authentication system.It should be menu driven

\*/

#include<stdio.h>

#include<string.h>

Int main()

{

Char a[3][2][20]={{“Pradeep”,”123”},{“MySirG”,”456”},{“Aditya”,”321”}};

Int I,flag=0;

Char username[]=”Pradeep”;

Char password[]=”123”;

For(i=0;i<=2;i++)

{

If(strcmp(username,a[i][0])==0 && strcmp(password,a[i][1])==0)

{

Printf(“Login Successful !!”);

Flag=1;

}

}

If(flag==0)

Printf(“Username or Password not matched”);

Return 0;

}