1)

#include<stdio.h>

#include<string.h>

int main()

{

int i,j,c=0;

char a[5][20];

printf("enter the strings name\n");

for(i=0;i<5;i++)

{

fgets(a[i],20,stdin);

}

for(i=0;i<5;i++)

{

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

{

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

{

c++;

}

}

printf("the number of vowels in the string %d is %d\n",i+1,c);

c=0;

}

return 0;

}

2)

#include<stdio.h>

#include<string.h>

int main()

{

int i,j,c=0;

char a[10][20],temp[20];

printf("enter the cities name\n");

for(i=0;i<10;i++)

{

fgets(a[i],20,stdin);

}

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

{

for(j=i+1;j<10;j++)

{

int n;

n=strcmp(a[i],a[j]);

if(n==1)

{

strcpy(temp,a[i]);

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

strcpy(a[j],temp);

}

}

}

printf("the name of cities in sorted order :-\n");

for(i=0;i<10;i++)

{

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

}

return 0;

}

3)

#include<stdio.h>

#include<string.h>

int main()

{

int i,n;

printf("enter the no. of the strings you want to enter \n");

scanf("%d",&n);

fflush(stdin);

char a[n][20];

printf("enter the strings name\n");

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

{

fgets(a[i],20,stdin);

}

printf("the strings entered by you is :-\n");

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

{

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

}

return 0;

}

4)

#include<stdio.h>

#include<string.h>

int main()

{

int i,j,n;

printf("enter the no. of the strings you want to enter \n");

scanf("%d",&n);

fflush(stdin);

char a[n][20],k[20];

printf("enter the strings name\n");

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

{

fgets(a[i],20,stdin);

}

printf("enter the string you want to search\n");

fgets(k,20,stdin);

int c;

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

{

c=0;

for(j=0;j<=strlen(k)-1;j++)

{

if(a[i][j]==k[j])

{

c++;

}

else

{

break;

}

}

if(c==strlen(k))

{

printf("the string is present at place %d ",i+1);

return 0;

}

}

if(c!=strlen(k))

{

printf("the string is not present ");

}

return 0;

}

5)

#include<stdio.h>

#include<string.h>

int main()

{

int i,j,n;

printf("enter the no. of the email id you want to enter \n");

scanf("%d",&n);

fflush(stdin);

char a[n][20];

printf("enter the email id\n");

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

{

fgets(a[i],20,stdin);

}

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

{

int f=0;

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

{

if(a[i][j]=='@')

{

f=1;

break;

}

}

if(f==0)

{

printf("odd email is %s",a[i]);

}

}

return 0;

}

6)

#include<stdio.h>

#include<string.h>

int main()

{

int i,j,k,n;

printf("enter the no. of the strings you want to enter \n");

scanf("%d",&n);

fflush(stdin);

char a[n][20];

printf("enter the strings name\n");

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

{

fgets(a[i],20,stdin);

}

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

{

int f=0;

k=0;

j=strlen(a[i])-2;

while(k!=j&&k<j)

{

if(a[i][k]!=a[i][j])

{

f=1;

break;

}

k++;

j--;

}

if(f==0)

{

printf("the string is palindrome %s",a[i]);

}

}

return 0;

}

7)

#include<stdio.h>

#include<string.h>

int main()

{

int i,j,n;

printf("enter the no. of ip addresses \n");

scanf("%d",&n);

fflush(stdin);

char a[n][20],k[20];

printf("enter the ip adresses\n");

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

{

fgets(a[i],20,stdin);

}

int f=0;

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

{

int c=0;

strcpy(k,a[i]);

char \*b=strtok(a[i],".");

while(b!=NULL)

{

int x=atoi(b);

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

{

c++;

}

b=strtok(NULL,".");//we cant use '' this instead of "" this .

}

if(c!=4)

{

f=1;

printf("the odd ip adress is %s\n",k);

}

}

if(f==0)

{

printf("all ip addresses are valid");

}

return 0;

}

8)

#include<stdio.h>

#include<string.h>

int main()

{

int i,n,m1=-1,m2=-1,t,min=1000;

printf("enter the no. of strings \n");

scanf("%d",&n);

fflush(stdin);

char a[n][20],k[20] ,j[20];

printf("enter the strings\n");

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

{

fgets(a[i],20,stdin);

}

printf("enter the strings for the distance\n");

fgets(k,20,stdin);

fgets(j,20,stdin);

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

{

if(strcmp(a[i],k)==0)

{

m1=i;

}

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

{

m2=i;

}

if(m1!=-1&&m2!=-1)

{

t=abs(m1-m2);//abs is used for modulus

if(t<min)

min=t;

}

}

if(m1!=-1&&m2!=-1)

printf("the minimum distance is %d",min-1);

else

printf("either both or any one of the string is not matched");

return 0;

}

9)

#include<stdio.h>

#include<string.h>

int fact(int n)

{

int f=1;

if(n==1)

return 1;

f=n\*fact(n-1);

return f;

}

int main()

{

int i,j,n;

char a[5][20]={"anubhav",

"khushi",

"sky",

"dholu",

"bholu"};

char k[20];

printf("enter the username\n");

fgets(k,20,stdin);

int f=0;

for(i=0;i<5;i++)

{

int c=0;

for(j=0;j<=strlen(k)-2;j++)

{

if(a[i][j]==k[j])

{

c++;

}

else

{

break;

}

}

if(c==strlen(k)-1)

{

f=1;

}

}

if(f==0)

{

printf("error");

}

else

{

int n;

printf("enter the number to find factorial\n");

scanf("%d",&n);

printf("factorial of %d is %d ",n,fact(n));

}

return 0;

}

10)

#include<stdio.h>

#include<string.h>

int main()

{

int i,j,n;

char a[5][20]= {"anubhav",

"khushi",

"sky",

"dholu",

"bholu"

},b[5][20]= {"anu123","khu123","sky123","dho123","bho123"};

char k[20];

printf("enter the username\n");

fgets(k,20,stdin);

int f=0;

for(i=0; i<5; i++)

{

int c=0;

for(j=0; j<=strlen(k)-2; j++)

{

if(a[i][j]==k[j])

{

c++;

}

else

{

break;

}

}

if(c==strlen(k)-1)

{

f=1;

}

}

if(f==0)

{

printf("error");

}

else

{

f=0;

int n;

printf("enter the password\n");

gets(k);

for(i=0; i<5; i++)

{

n=strcmp(b[i],k);

if(n==0)

{

f=1;

printf(" user authenticated");

break;

}

}

if(n!=0)

{

printf("wrong password");

}

}

return 0;

}