#include<stdio.h>

void accept(char \*string);

void display(char \*string);

int length(char \*string);

void copy(char \*string1,char \*string2);

void reverse(char \*string1,char \*string2);

void concatinate(char \*string1,char \*string2);

void compare(char \*string1,char \*string2);

void substring(char \*string1,char \*string2);

void main()

{

char A[20],B[20],C[20],D[20];

int ch,len;

do

{

printf("\n1.accept and display string1\n2.accept and display string2\n3.length of string\n4.copy string\n5.reverse string\n6.concatination\n7.compare strings\n8.substring");

printf("\nenter your choice");

scanf("%d",&ch);

switch(ch)

{

case 1:accept(A);

display(A);

break;

case 2:accept(B);

display(B);

break;

case 3:len=length(A);

printf("\nlength of string:%d",len);

break;

case 4:copy(A,D);

printf("\ncopied string:%s",D);

break;

case 5:reverse(A,C);

printf("\nreversed string:%s",C);

break;

case 6:concatinate(A,B);

printf("\nconcatinated string:%s",A);

break;

case 7:compare(A,B);

break;

case 8:substring(A,B);

break;

default:printf("invalid choice");

break;

}

}while(ch!=10);

}

void accept(char \*string)

{

printf("Enter the string");

scanf("%s",string);

}

void display(char \*string)

{

printf("string is:%s",string);

}

int length(char \*string)

{

int i=0,len=0;

while(\*string!='\0')

{

len++;

string++;

}

return len;

}

void copy(char \*string1,char \*string2)

{

int i=0;

while(\*string1!='\0')

{

\*string2=\*string1;

string2++;

string1++;

i++;

}

\*string2='\0';

}

void reverse(char \*string1,char \*string2)

{

int i,l;

l=length(string1);

for(i=0;\*string1!='\0';i++)

string1++;

for(i=l-1;\*string1!='\0';i--)

{

\*string2=\*string1;

string2++;

string1--;

}

}

void concatinate(char \*string1,char \*string2)

{

int i,j,l;

l=length(string1);

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

{

string1++;

while(\*string2!='\0')

{

\*string1=\*string2;

string1++;

string2++;

}

}

void compare(char string1[20],char string2[20])

{

int i,k,l,flag;

k=length(string1);

l=length(string2);

if(k==l)

{

flag=0;

while(\*string1!='\0')

{

if(\*string1!=\*string2)

{

flag=1;

break;

}

string1++;

}

if(flag==1)

{

printf("strings are not equal");

}

else

{

printf("strings are equal");

}

}

else

{

printf("length of strings are not equal");

}

}

void substring(char string1[20],char string2[20])

{

int cnt=0;

while(\*string1!='\0')

{

if(\*string1==\*string2)

{

string1++;

string2++;

if(\*string2=='\0')

{

cnt++;

break;

}

}

else

{

string1++;

\*string2='\0';

}

}

if(cnt==0)

{

printf("not a substring");

}

else

{

printf("substring is present");

}

}