#include <iostream>

#include <cstring>

using namespace std;

/\* run this program using the console pauser or add your own getch, system("pause") or input loop \*/

char des[100],src [100];

int length()

{

int i=0;

int length=0;

cout<<"ENTER WORD :"<<endl;

cin>>src;

while(src[i]!='\0')

{

length++;

i++;

}

return length;

}

int autolength()

{ string srch;

cout<<"ENTER WORD :"<<endl;

cin>>srch;

return srch.size();

}

void copy()

{

int i=0;

cout<<"ENTER WORD :"<<endl;

cin>>src;

while(src[i]!='\0')

{

des[i]=src[i];

i++;

}

cout<<"des string :"<<des<<endl;

}

void autocopy()

{

cout<<"Enter WORD 1:"<<endl;

cin>>src;

strcpy(des,src);

cout<<"WORD 2:"<<des<<endl;

}

void concatenation()

{

int i1=0;

int i2=0;

cout<<"enter string des :"<<endl;

cin>>des;

cout<<"enter string src :"<<endl;

cin>>src;

while(des[i1]!='\0')

{

i1++;

}

while(src[i2]!='\0')

{

des[i1]=src[i2];

i1++;

i2++;

}

cout<<"string after concatenation :"<<des<<endl;

}

void autoconcatenation()

{ string dest,srch;

cout<<"enter string des :"<<endl;

cin>>dest;

cout<<"enter string src :"<<endl;

cin>>srch;

string full=dest + srch;

cout<<"string after concatenation :"<<full<<endl;

}

void reverse()

{ string one;

cout<<"Enter string :"<<endl;

cin>>one;

int a=one.size();

for(int i=0;i<(a/2);i++)

swap(one[i],one[a-i-1]);

cout<<"Reverse string :"<<one<<endl;

}

int palindrome()

{

int i1=0;

cout<<"Enter string"<<endl;

cin>>src;

int i2=0;

while(src[i2]!='\0')

{

i2++;

}

i2=i2-1;

while(i1<i2)

{

if(src[i1]==src[i2])

{

i1++;

i2--;

}

else

{

break;

}

}

if(i1>=i2)

cout<<"palindrome"<<endl;

else

cout<<"not palindrome"<<endl;

}

void compare()

{

int i1=0;

int i2=0;

cout<<"enter string 1 :"<<endl;

cin>>src;

cout<<"enter string 2:"<<endl;

cin>>des;

while(src[i1]!='\0')

{

i1++;

}

while(des[i2]!='\0')

{

i2++;

}

if(i1>i2)

{

cout<<"string 1 is greater than string 2"<<endl;

}

else if(i1=i2)

{

cout << "both string are equal " << endl;

}

else

{

cout<<"string 2 is greater than string 1"<<endl;

}

}

void autocomp()

{ string s1,s2;

cout<<"Enter string 1 :"<<endl;

cin>>s1;

cout<<"Enter string 2 :"<<endl;

cin>>s2;

int x = s1.compare(s2);

if (x > 0)

cout <<" string 1 is greater than string 2" << endl;

else if(x<0)

cout << "string 2 is greater than string 1" << endl;

else

cout << "both string are equal " << endl;

}

int SubString()

{

int j;

int i1=0;

int i2=0;

cout<<"enter string 1 :"<<endl;

cin>>src;

cout<<"enter string 2:"<<endl;

cin>>des;

while(src[i1]!='\0')

{

i1++;

}

while(des[i2]!='\0')

{

i2++;

}

if(i2>i1)

{

cout<<"String 2 is not substring of string1."<<endl;

}

int count=0;

for(int i=0;i<=(i1-i2);i++)

{

for(int j=0;j<=(i2-1);j++)

{

if(src[i+j]!=des[j])

{

break;

}

}

if(j==i2)

{

count++;

}

}

return count;

}

int main(int argc, char\*\* argv) {

int y;

do{

int selectvar;

cout<<"1 String Length 2.String Length(library function) "<<endl<<"3. String Copy 4. String Copy(library function)"<<endl;

cout<<"5. String Concatenation 6.String Concatenation(library function)"<<endl<<"7. String Reverse"<<endl;

cout<<"8. String Palindrome "<<endl<<"9. String Compare 10.String Compare(lib. func.) "<<endl<<"11. Substring"<<endl;

cin>>selectvar;

switch(selectvar)

{

case 1:

cout<<"Length of string :"<<length()<<endl;

break;

case 2:

cout<<"Length of string :"<<autolength()<<endl;

break;

case 3:

copy();

break;

case 4:

autocopy();

break;

case 5:

concatenation();

break;

case 6:

autoconcatenation();

break;

case 7:

reverse();

break;

case 8:

palindrome();

break;

case 9:

compare();

break;

case 10:

autocomp();

break;

case 11:

int q=SubString();

if(q==1)

{

cout<<"String 2 is substring of string 1."<<endl;;

}

else

{cout<<"String 2 is not substring of string1."<<endl;

}

break;

}

cout<<"press 4 for continue"<<endl;

cin>>y;

}while(y==4);

return 0;

}

Output:

