



COLLEGE OF ENGINEERING AND COMPUTER STUDIES

OUTCOMES EVALUATION # 7

Implementing Login Credentials in C-String

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Course & Section:
BSCS 1-1

Date:
December 08, 2021



OUTCOMES OUTLINE

I. DESCRIPTION

Our task is to implement the login credentials using the C-string, we should be able to create

II. THEORETICAL FRAMEWORK

INPUT	PROCESS	OUTPUT
READ my_password, password READ my_username, username READ count, in MENU: 1. Searching Array 2. Sorting Array (Ascending) 3. Sorting Array (Descending) 0. Exit the Program Enter your choice: Read a	IF username == my_username THEN continue ELSE exit the program END IF SWITCH: CASE_1: Function search: FOR x=1 increment x until x is < count END FOR CASE_2: Function sortasc: FOR y=0 increment y until y is < count FOR x=y+1 increment x until j is < count IF in[x] < in[y]	IF username == my username THEN print “Correct Username” ELSE PRINT “Incorrect Username” IF password == my_password THEN PRINT “Correct Password” ELSE PRINT “Incorrect Password” END IF CASE_1: PRINT “Unsorted Array Element [“ + x +”] “ + in[x]



	THEN Z=in[y] In[y]=in[x] In[x]=z END IF FOR y=0 increment y=until y is < count END FOR CASE_3 Function sortdesc: FOR y=0 increment y until y is < count FOR x=y+1 Increment x until x is < count IF in[y] < in[x] THEN z=in[y] in[y]=in[x] in[x]=z END IF FOR y=0 increment y until y is < count END FOR CASE_0; RETURN 0; DEFAULT: System("pause") END CASE	CASE_2: PRINT "Elements of Array in Sorted Ascending Order:" PRINT in[y] CASE_3: PRINT "Elements of Array in Sorted Descending Order:" PRINT in[y] CASE_0: PRINT " " ARRAY PROGRAMMING TERMINATED THANK YOU FOR USING THE PROGRAM" DEFAULT: PRINT "Invalid Input" END CASE
--	--	---

III. SCREEN SHOTS

A. Visual Studio Code

```
1 //Name: Orian Lezner R. Bagsic
2 //Section: BSCS 1-1
3 //Date: December 08, 2021
4 //Outcome Evaluation #7
5 // Description: Our task is to implement the Login credentials using the C-string, we should be able to create
6 #include<iostream>
7 #include <cstring>
8
9 using namespace std;
10
11 void search(int in[], int count);
12 void sortasc(int in[], int count);
13 void sortdesc(int in[], int count);
14
15 const int size = 100;
16 int main()
17 {
18     char my_password[10] = "yenoreo";
19     char password[10];
20     char my_username[5] = "yen";
21     char username[5];
22
23     cout << "Enter Username: ";
24     cin >> username;
25     if (!strcmp(my_username, username))
26     {
27         cout << "Enter Password: ";
28         cin >> password;
29
30         if (!strcmp(my_password, password))
31         {
32             cout << "\nCorrect Password..." << endl;
33             system("pause");
34         }
35         else
36         {
37             cout << "\nIncorrect Password..." << endl;
38             system("pause");
39             return 0;
40         }
41     }
42     else
43     {
44         cout << "\nIncorrect Username" << endl;
45         system("pause");
46         return 0;
```

```
    }
}
else
{
    cout << "\nIncorrect Username" << endl;
    system("pause");
    return 0;
}

int in[size], count, a;

system("cls");
cout << endl;
cout << "Enter Number of Elements in Array: ";
cin >> count;

cout << "\n" "Enter " << count << " Numbers \n";

for(int i = 0; i < count; i++)
{
    cin >> in[i];
}

do
{
    system("cls");
    cout << "<<< ARRAY PRGORAMMING >>>" << endl;
    cout << "[1] Searching Array" << endl;
    cout << "[2] Sorting Array (Ascending)" << endl;
    cout << "[3] Sorting Array (Descending" << endl;
    cout << "[0] Exit the Program" << endl;
    cout << "Enter your choice: ";
    cin >> a;

    system("cls");
    switch (a)
    {
        case 1:{
            system("cls");
            cout << "<<< SEARCHING ARRAY >>>" << endl;
            search(in,count);
            system("pause");
            break;
        }
    }
}
```

```
        cout << "<<< SORTING ARRAY (ASCENDING) >>>" << endl;
        sortasc(in,count);
        system("pause");
        break;
    }

    case 3:{
        system("cls");
        cout << "<<< SORTING ARRAY (DESCENDING) >>>" << endl;
        sortdesc(in,count);
        system("pause");
        break;
    }

    case 0:{
        system("pause");
        cout << "===== \n";
        cout << "    ARRAY PROGRAMMING TERMINATED\n THANK YOU FOR USING THE PROGRAM" << endl;
        cout << "===== \n";
        system("pause");
        return 0;
    }

    default:{
        cout << "Invalid Input\n";
        system("pause");
    }
}

while(true);
}

void search(int in[], int count)
{
    for(int x = 0; x < count; x++)
    {
        cout << "\nUnsorted Array Element [" << x << "] " << in[x] << endl;
    }
}

void sortasc(int in[], int count)
{
    int x, y, z;

    for (y = 0; y < count; y++)
    {
        for (x = y + 1; x < count; x++)
        {
            if (in[x] < in[y])
            {
                z = in[x];
                in[x] = in[y];
                in[y] = z;
            }
        }
    }
}
```

```
for (x = y + 1; x < count; ++x)
{
    if(in[x] < in[y])
    {
        z = in[y];
        in[y] = in[x];
        in[x] = z;
    }
}

cout << "Elements of Array in Sorted Ascending Order: \n" ;
for ( y = 0; y < count; y++)
{
    cout << in[y] << endl;
}
}

void sortdesc(int in[], int count){

    int x, y, z;

    for (y = 0; y < count; ++y) //
    {
        for (x = y + 1; x < count; ++x)
        {
            if (in[y] < in[x])
            {
                z = in[y];
                in[y] = in[x];
                in[x] = z;
            }
        }
    }

    cout<<"\n Elements of Array in Sorted Descending Order : \n";
    for (y = 0; y < count; ++y)
    {
        cout<<" ";
        cout<<in[y];
        cout<<"\n";
    }
}
```

B. Sample Input/Output

```
PS C:\Users\Orlean> cd "c:\Users\Orlean\Documents\CPFL\" ; if ($?) { g++ CPFL_OE6.cpp -o CPFL_OE6 } ; if ($?) { .\CPFL_OE6 }
Enter Username: yen
Enter Password: yengored
```



```
PS C:\Users\Orlean> cd "c:\Users\Orlean\Documents\CPFL\" ; if ($?) { g++ CPFL_OE6.cpp -o CPFL_OE6 } ; if ($?) { .\CPFL_OE6 }
Enter Username: yen
Enter Password: yenoreo

Correct Password...
Press any key to continue . . .
```

<<< SEARCHING ARRAY >>>

Unsorted Array Element [0] 2

Unsorted Array Element [1] 3

Unsorted Array Element [2] 1

Unsorted Array Element [3] 4

Unsorted Array Element [4] 5

Press any key to continue . . .

<<< SORTING ARRAY (ASCENDING) >>>

Elements of Array in Sorted Ascending Order:

1

2

3

4

5

Press any key to continue . . .



```
<<< SORTING ARRAY (DESCENDING) >>>
```

```
Elements of Array in Sorted Descending Order :
```

```
5
```

```
4
```

```
3
```

```
2
```

```
1
```

```
Press any key to continue . . . █
```

IV. PROGRAM SOURCE CODE

```
//Name: Orieon Lezner R. Bagsic  
//Section: BSCS 1-1  
//Date: December 08, 2021  
//Outcome Evaluation #7  
// Description: Our task is to implement the login credentials using the  
C-string, we should be able to create  
#include<iostream>  
#include <cstring>  
  
using namespace std;  
  
void search(int in[], int count);  
void sortasc(int in[], int count);  
void sortdesc(int in[], int count);  
  
const int size = 100;  
int main()  
{  
    char my_password[10] = "yenoreo";  
    char password[10];  
    char my_username[5] = "yen";  
    char username[5];  
  
    cout << "Enter Username: ";  
    cin >> username;  
    if (!(strcmp(my_username,username)))  
    {
```



```
        cout << "Enter Password: ";
cin >> password;

if (!(strcmp(my_password,password)))
{
    cout << "\nCorrect Password..." << endl;
    system("pause");
}
else
{
    cout << "\nIncorrect Password..." << endl;
    system("pause");
    return 0;
}
}
else
{
    cout << "\nIncorrect Username" << endl;
    system("pause");
    return 0;
}

int in[size], count, a;

system("cls");
cout << endl;
cout << "Enter Number of Elements in Array: ";
cin >> count;

cout << "\n" "Enter " << count << " Numbers \n";

for(int i = 0; i < count; i++)
{
    cin >> in[i];
}

do
{
    system("cls");
    cout << "<<< ARRAY PRGORAMMING >>>" << endl;
    cout << "[1] Searching Array" << endl;
    cout << "[2] Sorting Array (Ascending)" << endl;
    cout << "[3] Sorting Array (Descending" << endl;
    cout << "[0] Exit the Program" << endl;
```

```
cout << "Enter your choice: ";
cin >> a;

system("cls");
switch (a)
{
    case 1:{
        system("cls");
        cout << "<<< SEARCHING ARRAY >>>" << endl;
        search(in,count);
        system("pause");
        break;
    }

    case 2:{
        system("cls");
        cout << "<<< SORTING ARRAY (ASCENDING) >>>" << endl;
        sortasc(in,count);
        system("pause");
        break;
    }

    case 3:{
        system("cls");
        cout << "<<< SORTING ARRAY (DESCENDING) >>>" << endl;
        sortdesc(in,count);
        system("pause");
        break;
    }

    case 0:{
        system("pause");
        cout << "===== \n";
        cout << "    ARRAY PROGRAMMING TERMINATED\n THANK YOU FOR
USING THE PROGRAM" << endl;
        cout << "===== \n";
        system("pause");
        return 0;
    }

    default:{
        cout << "Invalid Input\n";
        system("pause");
    }
}
```

```
    }  
    while(true);  
}  
  
void search(int in[], int count)  
{  
    for(int x = 0; x < count; x++)  
    {  
        cout << "\nUnsorttted Array Element [" << x << "] " << in[x] <<  
endl;  
    }  
}  
  
void sortasc(int in[], int count)  
{  
    int x, y, z;  
  
    for (y = 0; y < count; y++)  
    {  
        for (x = y + 1; x < count; x++)  
        {  
            if(in[x] < in[y])  
            {  
                z = in[y];  
                in[y] = in[x];  
                in[x] = z;  
            }  
        }  
    }  
    cout << "Elements of Array in Sorted Ascending Order: \n" ;  
    for ( y = 0; y < count; y++)  
    {  
        cout << in[y] << endl;  
    }  
}  
  
void sortdesc(int in[], int count){  
  
    int x, y, z;
```

```
for (y = 0; y < count; ++y)    //
{
    for (x = y + 1; x < count; ++x)
    {
        if (in[y] < in[x])
        {
            z = in[y];
            in[y] = in[x];
            in[x] = z;
        }
    }
}

cout<<"\n Elements of Array in Sorted Descending Order : \n";
for (y = 0; y < count; ++y)
{
    cout<<" ";
    cout<<in[y];
    cout<<"\n";
}
}
```

V. LEARNING OUTCOMES

The things I learned is creating a password using char and array at the same time the number inside the bracket is like how many letters of you password you will provide and I also learned the use of C-string just add `#include <cstring>` to use the function of `strcmp`.

VI. GITHUB PROJECT LINK

<https://github.com/Olezner/My-CPFL-Activities>

VII. REFERENCES (If any...)



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