Institute of technology of Cambodia

Department of Information and communication Engineering



The lesson taking about basic data type and use Boolean, ASCII,

Function string, character.

TP3-Work with String functions

TP: Algorithm and Programming

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11001011101 1 1011 a abot 101 a batting. Control to to 10 11 of cabo.	•

Problem1: Write a C program to concatenate a string. The user is required to input his/her first name and last name. the program display username by concatenating the first name and last name together.

```
Start here X Problem1.c X
          #include<stdio.h>
     2
         #include<string.h>
     3
     4
         main()
     5
        ⊟{
     7
              char firstname[20];
     8
              char lastname[20];
     9
    10
              printf("Input firstname: ");
    11
              scanf("%s",&firstname);
    12
              printf("Input firstname: ");
    13
              scanf("%s", &lastname);
    14
              printf("username of the user is: %s.\n", strcat(strcat(firstname, ","), lastname));
    15
    16
    17
           "C:\Users\Admin\Desktop\C progamimg\Problem1.exe"
          Input firstname: ven
          Input firstname: thon
          username of the user is: ven_thon.
                                    execution time : 9.677 s
          Process returned 0 (0x0)
          Press any key to continue.
```

Problem2: write a c program ask a user for a text. Display the total character of the input string.

```
Problem2.c
     #include<stdio.h>
1
     #include<string.h>
2
 3
 4
     main()
5 🗏 {
 6
 7
         char text[20];
8
         int a;
9
         printf("Input a text: ");
10
         scanf("%s",&text);
11
12
         a =strlen(text);
13
14
         printf("The text \"%s\" has %d characters.\n\n",text,a);
15
16 L
   C:\Users\Admin\Desktop\C progamimg\Problem2.exe
  Input a text: Everyone
  The text "Everyone" has 8 characters.
Process exited after 36.95 seconds with return value 39
  Press any key to continue . .
```

Problem3: write a c program to get a first name from a user. Find the first letter and last letter of the input first name.

```
Start here X Problem3.c X
         #include<stdio.h>
     2
        #include<string.h>
     3
     4
        main()
     5
        char firstname[30];
     6
         int lastindex;
     9
         printf("Input firstname: ");
    10
        scanf("%s",&firstname);
    11
    12
        lastindex = strlen(firstname) - 1;
    13
        printf("The first letter is %c and the last letter is %c",firstname[0],firstname[lastindex]);
    14
    15
    16 T:\Code C program\Problem3.exe"
    17
         Input firstname: Books
         The first letter is B and the last letter is s
         Process returned 0 (0x0) execution time : 25.491 s
         Press any key to continue.
ogs & others
  Search
```

Problem4. Write a c program to ask a user to input a piece of text. Convert the text to uppercase. Display on screen both the source input and the converted text.

```
Start here X Problem3.c X Problem4.c X
           #include<stdio.h>
      2
         #include<string.h>
      3
          main()
      4
      5
      6
              char text[20];
      7
      8
               printf("Input the text: ");
      9
               gets(text);
     10
     11
               printf("uppercase: %s ", strupr(text));
     12
     13
               strcpy(text, strlwr(text));
     14
               printf("\nuppercase: %s",text);
     15
     16
             "C:\Code C program\Problem4.exe"
            Input the text: Hello everyone! HOW ARE YOU TODAY?
             uppercase: HELLO EVERYONE! HOW ARE YOU TODAY?
            uppercase: hello everyone! how are you today?
            Process returned 0 (0x0) execution time : 30.833 s
            Press any key to continue.
<
Logs & others
Search resi
File
```

Problem5. Ask a user for a string. Convert it to lowercase.

```
Start here X Problem5.c X
          #include<stdio.h>
     1
     2
          #include<string.h>
     3
         main()
     4
        □ {
     5
     6
              char text[20];
     7
     8
              printf("Input the text: ");
     9
              scanf("%s", &text);
    10
    11
              strrev(text);
              printf("Output: %s \n", strlwr(text));
    12
    13
    14
             "C:\Code C program\Problem5.exe"
            Input the text: Chocolate
            Output: etalocohc
            Process returned 0 (0x0) execution time : 20.009 s
            Press any key to continue.
```