Programming Fundamentals

Lab Report

<u>Lab 11</u>



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Class	Programming Fundamentals CSC103 (BCE-2B)
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In Lab Tasks

Question no: 1

Write a C Program that does the following:

- 1. Declares a C-String called 'm1' and initializes it with text "Programming is great fun!".
- 2. Uses C-function puts() to print this string.
- 3. Asks the user to enter a String named 'm2' (Hint: Use gets() function for this.)
- 4. Concatenates the two strings and stores the result in 'm3'.

For example, if the user enters **m2** as "Not Really!", **m3** should be "Programming is great

fun! Not really!"

5. Inserts the user entered array (m2) into m1 after "Programming is ..."

Solution:

The Code for the following code is attached below,

```
1
       #include <stdio.h>
 2
       #include <stdlib.h>
 3
       #include <string.h>
 4
       int main()
 5
     □ {
 6
              char ml[]={"Programming is great fun!"};
 7
           char m2[50];
 8
             char m3[50];
 9
             puts(ml);
10
11
12
             printf("\nenter a string to be printed?\n");
             gets(m2); /// character input
13
14
15
        printf("%s\n", m2);
16
17
       strcat(m1,m2);
18
       strcpy(m3,ml);
       printf("%s\n",m3);
19
20
       }
21
22
```

The Result of the following code is attached below:

```
■ C:\Users\Hp\Documents\CodeBlocks\C\Lab11Task\\bin\Debug\Lab11Task\.eve

Programming is great fun!

enter a string to be printed?

No!

No!

Programming is great fun!No!

Process returned 0 (0x0) execution time : 8.668 s

Press any key to continue.
```

Question no: 2(A)

Write a program that converts a string like "124" to an integer 124.

Solution

The code is shown below for the given program,

```
#include <stdio.h>
      #include <stdlib.h>
      int main()
          char m1[20]={"124"};
6
         int x=0;
8
10
          for(int i=0; i<9;i++)
11
12
             if(ml[i]=='1')
13
              x=x+1*100;
14
15
16
             if(ml[i]=='2')
17
              x=x+(2*10);
18
19
20
21
             if(ml[i]=='4')
22
              x=x+(4*1);
23
25
26
27
         printf("%d",x);
29
```

The Result of the following code is attached below:

```
■ C\Users\Hp\Documents\CodeBlocks\C\Lab11task2\bin\Debug\Lab11task2.exe — X

1.24

Process returned 0 (0x0) execution time : 0.065 s

Press any key to continue.
```

Question no: 2(B)

Write a program that replaces two or more consecutive blanks in a string by a single blank.

For example, if the input is

"Grim return to the planet of apes!!"

the output should be

"Grim return to the planet of apes!!"

Solution

The code is shown below for the given program,

```
4 int main()
 5
    □ {
        char text[1000]={"Grim return to the planet
                                                            of apes "}, blank[1000];
 6
 7
        int c = 0, d = 0;
 8
9
10
if (text[temp] != '\0') {
               while (text[temp] == ' ' && text[temp] != '\0') {
                  if (text[temp] == ' ') {
17
18
19
                  temp++;
20
21
22
         blank[d] = text[c];
24
         c++;
25
          d++:
27
       blank[d] = ' \ 0';
28
29 printf("Text before removing blanks\n%s\n\n", text);
30
       printf("Text after removing blanks\n%s\n\n", blank);
31
32
        return 0;
```

The Result of the following code is attached below:

C:\Users\Hp\Documents\CodeBlocks\C\lab11task2b\bin\Debug\lab11task2b.exe			×
Text before removing blanks Grim return to the planet of apes			^
Text after removing blanks Grim return to the planet of apes			
Process returned 0 (0x0) execution time : 0.047 s Press any key to continue.			
			V

THE END

*there was no post lab for this lab.