

Programming Fundamentals (CL-1002)

Lab 11

Instructions:

1. Solve each problem in separate file, Name the code file with problem no (Task_01, Task_02,.)
2. Copy these files (Task_01, Task_02,.) in a folder and name the folder like that K21XXXX. where XXXX is your 4-digit Student Id.
3. Now compress that folder using WinRAR software and submit on google-classroom.
4. Do not attach .exe file, otherwise it will show a threat or virus and not allow me to download.
5. Make sure you must Press the Turn-In button after uploading the solution folder. Otherwise, it will not be submitted.

Task_01:

Write a program to implement the exchange or swap the values of 3 variables{a,b,c}. To implement this, you need to write a function called swaped().

```
void swaped(int *aPtr, int *bPtr, int *cPtr);  
Enter value of num1: 3  
Enter value of num2: 4  
Enter value of num3: 5  
Before Swapping: num1 is: 3, num2 is: 4, num3 is: 5  
After Swapping: num1 is: 4, num2 is: 5, num3 is: 3
```

Task_02:

Write a program that calculates the sum of all the elements in array using pointers

Task_03:

Write a program to find the min and max from an array using pointers.

Task_04:

Write a program that implements the function(WordCount).

```
int *WordCount(char *Text, int *size);
```

```
ENTER A STRING: Eman shahid  
You have entered: Eman shahid  
THERE ARE 2 WORDS IN THE STRING
```

Task_05: Write a program to create a calculator using array of pointer to function.

Task_05:

Write a program that implements the SortFunction that takes argument pointer to an array, size of the array and the order in which it is going to be sort. Such as, 1 for Asscending order and 2 for Descending orde. Finally, print this array in Main() to check.

```
void SortFunction(int *arr, int *size, int order);
```

Task_07:

You need to implement the the following 2 struct.

```
struct Student{}; struct Register{};
```

Student contains attribute StudentId, FirstName, LastName, cellNo, email.

Register contains attribute CourseId, CourseName.

Task_08:

Using question 7, Now you need to inherit the Register struct in Student struct. It means that student struct holds the variable of Register struct variable. After that you need to take input for 5 students and then print them

[Hint: Declare array of struct Student std[5]; for 5 students]