

Lab Tasks

Task#01

Write a function `multiplier()` that takes five pointers as arguments to find the sum of 5 numbers using pointers.

Task#02

```
#include <iostream>
using namespace std;
int main() {
    int x = 5;
    //declare a pointer variable ptr1 pointing to x
    //display the value of x using ptr1
    //change the value of x to 10 through ptr1
    //increase this data value by 2.5
    //display the value using cout
    //Declare the variable fPtr to be a pointer to an object of type double.
    //Assign the address of variable number1 to pointer variable fPtr.
    //Print the value of the object pointed to by fPtr.
    //Assign the value of the object pointed to by fPtr to variable number2.
    //Print the value of number2.
    //Print the address of number1.
    //Print the address stored in fPtr. Is the value printed the same as the address of number1?
    return 0;
}
```

Task#03

Write a function named *Swap* that takes two integers and swap them.

#swap gtest is attached

Task#05

Write a bool function named `find` that takes a pointer to the beginning and an integer pointer to the `*end` (`end=end+size`) of an array, as well as a value. The function should sort the array in ascending and descending order.

Task#06

Write a C++ program to print the following:

Asma' reported: The Messenger of Allah, peace and blessings be upon him, said, **"Spend in charity and do not count it, lest Allah count it against you. Do not hoard it, lest Allah withhold from you."**

Source: Ṣaḥīḥ al-Bukhārī 2451, Ṣaḥīḥ Muslim 1029

Task#07 (Home Task)

Run all the sample programs and attach the output screenshots as well.

Submission instructions:

- 1 Save all .cpp files with your roll no and task number
e.g. i21XXXX_Task01.cpp
- 2 Save all screenshots of terminal with your roll no and task number
- 3 Now create a new folder with name ROLLNO_LAB03 e.g. i21XXXX_LAB03
- 4 Move all your .cpp files to this newly created directory and compress it into .zip file.
- 5 Now you must submit this zipped file on Google Classroom.

Good Luck