

Course	INFO-6101 [Integrated Systems and Micro Controllers]		
Lab#2	C Language Programs		
Due Date	See Submission Folder Due Date on FOL		
Submitting	See instruction at the bottom of the page		
Professor	Ahmed Mukhlis		
Student name		Student #	

How will my Lab be marked?

This Lab accounts for 5% of your final mark and will be marked as follows:

Evaluation will take place in Class during the experiment

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		INF	O-610	1 - Integrat	ed System	s and Mi	icro C	ontro	llers			
1		0%		6		3		Final Mark				
				P1 (2)	P2 (2)	P3 (2)	1	1	1		10%	
Attendance & attempt	Н	ardwai	re	Software Code Operation								
Over all. Documents labeled with course ID, Project Name, team memeber and is proofread for spelling, grammar, etc.		N/A		Commands Structure Code	Running Compilation Results				Feedback			

How should I submit my Assignment?

Electronic Submission (<u>mandatory</u>): This is an individual Lab and each one of you will submit a Word File and upload it to the Dropbox: "Lab#2".

Require the code for Program 1, 2 & 3

Please ensure that you submit your lab on time otherwise your mark will be affected



Experiment Description

Write simple Programs in C Language.

In this lab, you will practice Decision control statement, Loops, Array & function

Write the C code & run the following examples first, then complete Program 1,2 & 3 in C language, run them & submit your work

Example 1 Program to check whether the given integer is positive or negative

Example 2 Program to find largest element of an array

```
#include <stdio.h>
/* This is our function to find the largest element in the array arr[]
int largest element(int arr[], int num)
    int i, max element;
   max element = arr[0];  // Initialization to the first array element
    /* Here we are comparing max element with
    * all other elements of array to store the
    * largest element in the max element variable
    for (i = 1; i < num; i++)
        if (arr[i] > max element)
            max element = arr[i];
   return max element;
}
int main()
    int arr[] = \{1, 24, 145, 20, 8, -101, 300\};
    int n = sizeof(arr)/sizeof(arr[0]);
   printf("Largest element of array is %d", largest element(arr, n));
    return 0;
}
```

Program 1

Write a program in C language to check if the entered number is odd or even

Program 2

Write a program in C language to display the product and the average of two float numbers

Program 3

Write a program in C to display only the even numbers from 0 to 20.