Abdelhafid Boussouf University Center- Mila		Academic Year: 2024/2025
Institute of Science and Technology		First Year Engineering
Module: Structure of Computers and Applications		Semester 1
Student Name:		Duration: 01.00 h
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## Exam N° 01

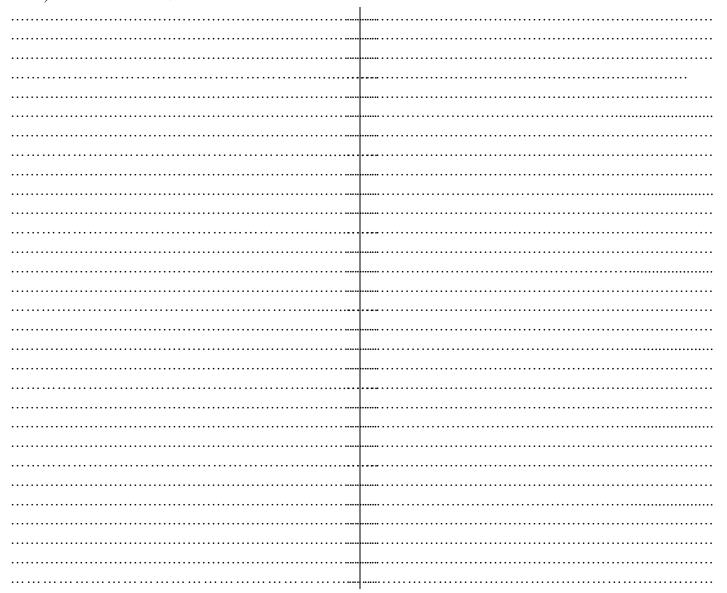
**Exercise N° 01:** 

**Question N° 01:** Write a C program to find all roots of a quadratic equation of the form  $ax^2 + bx + c = 0$  using **if else** statements. Include detailed explanations of each part of the code (*comments*).

**Question N° 02:** What are the roots of the following quadratic equations:

a) 
$$x^2 - 5x + 6 = 0$$
.

b) 
$$0.2x^2 - 0.4x + 0.2 = 0$$
.



Exercise N° 02:	Exercise $N^{\circ}$ 03:
<b>Question N° 01</b> : Write a C program that	<b>Question N° 1</b> :Discuss the following C program
asks the user to enter $N$ integers, calculates	and show their purposes and final results.
the number of even and odd numbers, and	
prints the results using a <b>for</b> loop.	<b>Question</b> N° 02: Assuming N = 5, What is the
<b>Question N° 02:</b> If we provide the following set	Output?
of numbers, (2, 4, 5, 8, 12, 14, 22, 35, 40, 17),	
what is the output ?	<pre>#include<stdio.h></stdio.h></pre>
	<pre>int main(){</pre>
	int n,i,f;
	f=i=1;
	<pre>printf("Enter the number n, n= ");</pre>
	scanf("%d",&n);
	while(i<=n) {
	f*=i;
	i++;
	177, l
	} nnin+f("\n %dl- %d " n f\.
	<pre>printf("\n %d!= %d ",n,f);</pre>
	return 0;
	}