


<b>Computer Programming Laboratory</b>		
<b>Laboratory 1: Flowchart and Pseudocode and Hello World</b>	<b>School of Information Technology</b>	
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**Objectives**

- To understand the concept of Flowchart and Pseudocode.
- To design Flowchart and Pseudocode.
- To write a first program C#

**Instruction: Study the given examples and answer all questions.**

1. Perform the following practices using any IDE.

**Sending Method:**

- Submission files are listed as follow:
  - Save this document file that contains all answers as “**Lab01\_YourID.pdf**”

**Practice I – Designing pseudo code and flowchart by fill in the answers in the boxes**

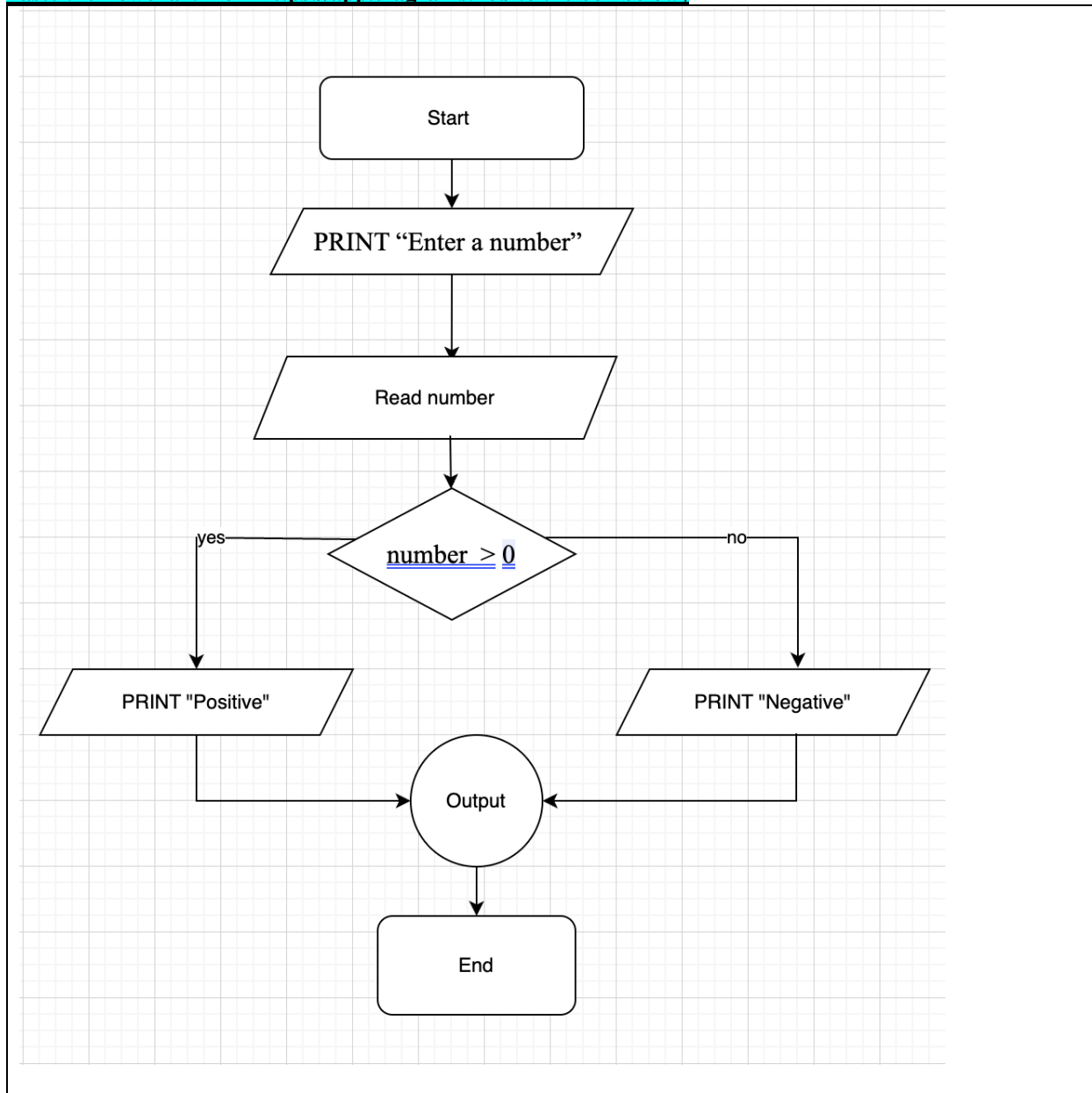
**Question 1** : Design Pseudo code and corresponding Flowchart to ask user to input a number. If a number is positive, print “positive”. Otherwise print “zero or negative”.

**Input:** number  
**Process:** check condition of number  
**Output:** show message of “positive” or “zero or negative”.

**Answer Pseudo code here.**

```
1. PRINT “Enter a number”
2. READ number
3. IF (number > 0 ) THEN
    PRINT “Posittive”
Else
    Print “Zero or Negative”
```

Paste the flowchart from <https://app.diagrams.net/> to the box below:



**Question 2 :** Design Pseudo code and corresponding Flowchart to transform the degree of Fahrenheit to Celsius and display it on the screen.

**Formula:**  $Celsius = (Fahrenheit - 32) * 5/9$

**Input:** fahrenheit

**Process:** calculate a degree of Celsius

**Output:** "Degree of celsius is " + celsius

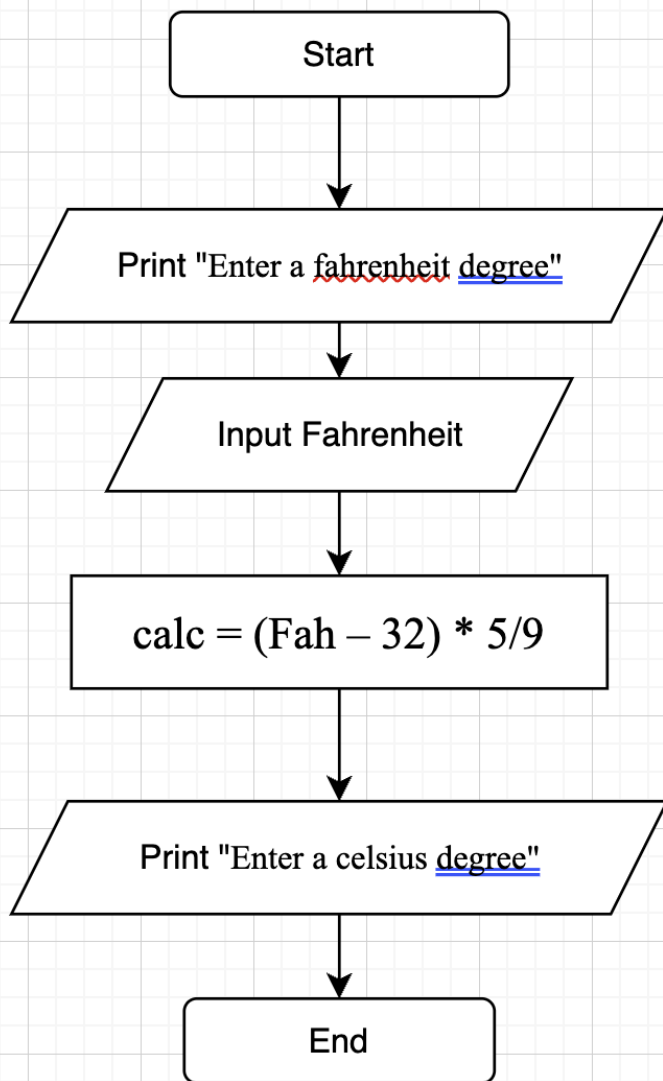
Answer Pseudo code here.

```
BEGIN
PRINT "Enter a fahrenheit degree : "
INPUT fah

SET calc = (Fah – 32) * 5/9

PRINT " The degree of the celsius is : {calc}"
END
```

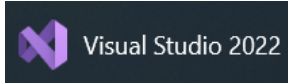
Paste the flowchart from <https://app.diagrams.net/> to the box below:



## **Practice II – Use Visual Studio 2022 to develop, compile and run program**

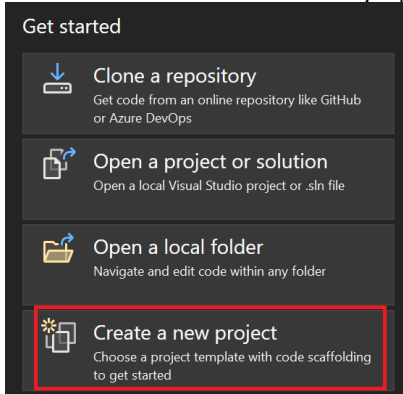
This practice shall give you the step to develop source code, compile and run Hello World program using **Visual Studio 2022 IDE** as a developer tool

### **Launch Visual Studio 2022**

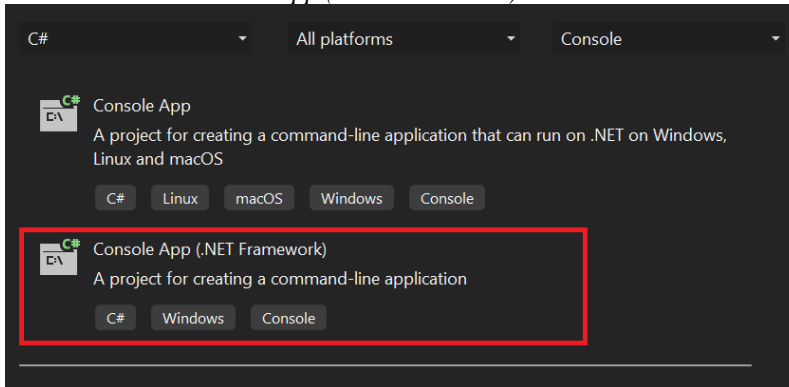


### **Create Project**

1. Select menu *File > Create a new project*



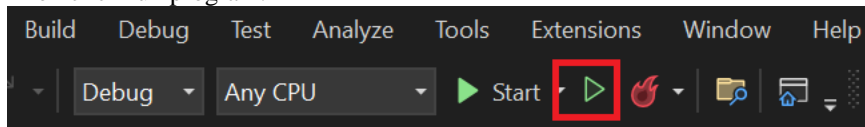
2. Choose *C#* and *Console App (.Net Framework)*



3. Enter Project Name: **your ID-Lab01**
4. Click *Create* button and then the program auto generates create a Program file.

```
1 using System;
2
3 namespace Lab01
4 {
5     0 references
6     internal class Program
7     {
8         0 references
9         static void Main(string[] args)
10        {
11        }
```

5. Write the program to show the output “Hello World”
6. Then click run program.



```
C:\> Select C:\Windows\system32\cmd.exe
Hello World
Press any key to continue . . .
```

**Question 1** : Write the program to show the output is “My name is \_\_\_\_Your name\_\_\_\_”

**Answer your code here.**

```
using System;
namespace Lab01
{
    internal class Program
    {
        static void Main(string[] args)
        {
            Console.WriteLine("My name is Thu Rein Oo");
        }
    }
}
```

```
}  
}  
}
```

**Question 2** : Write the program to show the output is “My favorite food is \_\_\_\_name of your favorite food\_\_\_\_”

**Answer your code here.**

```
using System;  
  
namespace Lab01  
{  
    internal class Program {  
        static void Main (string[] args){  
            Console.WriteLine("My favorite food is noodle");  
        }  
    }  
}
```