

## ITCS 201 – Fundamentals of Programming Week 4: Lab Assignments

Name:	1D:
<b>Due:</b> today or in a lab session next week	
Instructions:	
lab assistance.  Lab A  Lab 1: Use switch-case statement to cre receives a character input from the use	and your code to the lecturer or the  ssignments eate the vending machine menu. The program er where 1 is <i>Coke</i> , 2 is <i>Est Cola</i> , 3 is <i>Oish</i> tomer press a number in range on the machine
3	8
You have ordered: Oishi Green Tea	Invalid drink number!

**Lab 2:** Write a program to find the maximum number between three given numbers using switch-case. The user has to input three integer numbers.

## **Example output:**

121 56 3	50 100 11
Max number is 121	Max number is 100

**Lab 3:** Based on the following code, amend the code using goto keyword to allow user to re-input the number if the previous input is negative number. Show the results and explain how the goto keyword works:

```
# include <stdio.h>
int main()
{     double number;
     printf("Enter a number:");
     scanf("%lf",&number);
     if(number < 0.0)
        printf("number is negative");
     else
        printf("number is positive");
     return 0;
}</pre>
```

**Lab 4:** Do the question 1 by using the ternary operator.

**Bonus Lab 1:** Write a basic calculator program using switch-case statement which can support four arithmetic operators (plus (+), minus (-), multiply (\*), and divide (/)). The program must take two numeric and one operator as inputs from a user. The following is the example result of the program:

## **Example output:**

Select an operator either (+,-,*,/) /	Select an operator either (+,-,*,/) -
Enter two numbers: 8 2	Enter two numbers: 2 9
8.0 / 2.0 = 4.0	2.0 - 9.0 = -7.0