***BE 1600***

***Introduction to***

***Programming and Computation***

***Python Lab***

**Lab 08**

20 points

**Due by the end of the lab session**

Assignment Objectives:

* To write programs for executing statements repeatedly by using a loop.
* To develop loops following the loop design strategy.
* To format output using format string
* To define functions.
* To invoke value-returning functions.

*Solution for this lab will not be posted on Canvas; however, the solution of any of the lab problems can be discussed in the class upon request of a student.*

All labs must be submitted by the Canvas. **No email or hard copy** is accepted. You must follow the following format:

* Submit your file to the Canvas. You must submit your file on time; otherwise, you will receive zero.
* You can upload your file as many times as you like. Only the last attempt counts because the last file you uploaded is the only file your instructor will see.
* There will be several modules on the Canvas. You need to upload your file using the correct module on the Canvas.
* Name the lab file: *Lab (labt number)*
* To upload your file(s):
* In Course Navigation, click the ASSIGNMENTS module.
* Click the title of the assignment.
* Click the **Submit** Assignment button.
* Add **File**. ...
* **Submit** Assignment. ...
* View **Submission**.

*It is your responsibility to make sure that the file is uploaded correctly. If you uploaded a wrong file, you receive zero; files will not be accepted after due date even if you have a prove that the file is created before the due date.*

***Make sure you review the Cheating & Plagiarism policy on Canvas.***

Write a program that contains the following two functions:

# Converts from Celsius to Fahrenheit and returns Fahrenheit

def celsiusToFahrenheit(celsius):

# Converts from Fahrenheit to Celsius and returns Celsius

def fahrenheitToCelsius(fahrenheit):

The formulas for the conversion are:

celsius = (5 / 9) \* (fahrenheit – 32)

fahrenheit = (9 / 5) \* celsius + 32

Use format string to format all output as shown in the table. Save your file as text file.

Here a sample run:

