Lab 2 – CSE 101 (Spring 2019)

1. Use your IDE (PyCharm) to create a new file named celsiusConversion.py. Type in the following two lines, exactly as they are shown here (including the four spaces before the word return) and save the file:

```
def celsiusConvertor(f):
    "Convert temperature f from Fahrenheit to Celsius."
    return (f - 32) * 5 / 9


#In your program, call celsiusConvertor function after taking
input from the user.
fahr = int(input('Enter Farhenheit value: '))
celsius = celsiusConvertor(fahr)
print ('Corresponding Celsius value is ', celsius)
#Value formatted to print with two decimal points
print ('Corresponding Celsius value is ',
'{:.2f}'.format(celsius))
```

   a) Run the program from the IDE.
   b) Run the program from Terminal in PyCharm.

2. Use your IDE (PyCharm) to create a new file named countertop.py. Type in the following two lines, exactly as they are shown here (including the four spaces before the word return) and save the file:

```
def countertop(x):
    """
    Compute the area of a square countertop with a missing
wedge. The parameter x is the length of one side of the square.
    """
    square = x ** 2 # area of the full square
    triangle = ((x / 2) ** 2) / 2 # area of the missing wedge
    return square - triangle
```

   a) Call this function from your program by taking an input from a user.
   b) Run the program from the IDE and Terminal in PyCharm.

3. Visit Python tutorial on Formatted output from the following page and follow this tutorial from the start to end:
   https://www.python-course.eu/python3_formatted_output.php

4. Submit celsiusConversion.py and countertop.py programs on Blackboard.