EE6310

Problem Set 2

1. Predict the output of the following code. Be ready to explain. For the methods that you have not seen, look up Google to understand!
2. input\_string = "hello"

print(input\_string.upper())

1. input\_sentence = "Python programming is fun"

print(len(input\_sentence.split()))

1. main\_string = "hello world"

sub\_string = "world"

print(main\_string.find(sub\_string))

1. input\_sentence = "I love Python"

print(input\_sentence.replace("love", "like"))

1. Represent the following calculation in python code
2. Remainder and quotient of 256 / 18
3. Use the math package in python to calculate the following values. Use Google to search for the function!
4. (ceil)
5. Make if statements for the following program
6. Write a Python program that takes a student's score as input and prints out their grade based on the following criteria:

Score >= 90: "A"

80 <= Score < 90: "B"

70 <= Score < 80: "C"

60 <= Score < 70: "D"

Score < 60: "F"

1. Write a Python program that takes two numbers as input and prints out which one is greater, or if they are equal.
2. Write a Python program that takes a number as input and prints out whether it is positive, negative, or zero.
3. Write a Python program that takes three sides of a triangle as input and prints out whether it is equilateral, isosceles, or scalene. Hint: An equilateral triangle has all three sides equal, an isosceles triangle has two sides equal, and a scalene triangle has no equal sides.