

Assignment 1

IE 5137 Computational Modelling in Industrial Engineering

Instructions:

Complete the assignment using Jupyter Notebook

Use separate code or text boxes for each question respectively.

Rename the Notebook with the Assignment No. and your Name (for example:
Assignment1_DevanathanSabapathy.)

Question 1:

What is wrong with the following code:

```
>>> print 'Hello world!'
File "<stdin>", line 1
print 'Hello world!'
^
SyntaxError: invalid syntax
>>>
```

Question 2:

What will the following program print out:

```
x = 43
x = x + 1
print(x)
```

a) 43
b) 44
c) x + 1
d) Error because $x = x + 1$ is not possible mathematically

Question 3:

How do you fix a "Syntax Error"?

Question 4:

Write a program that uses input to prompt a user for their name and then welcomes them.

```
Enter your name: Chuck
Hello Chuck
```

Question 5:

Write a program to prompt the user for hours and rate per hour to compute gross pay.

Enter Hours: 35
Enter Rate: 2.75
Pay: 96.25

Question 6:

Assume that we execute the following assignment statements:

width = 17
height = 12.0

For each of the following expressions, write the value of the expression and the type (of the value of the expression).

1. width//2
2. width/2.0
3. height/3
4. 1 + 2 * 5

Question 7:

Write a program which prompts the user for a Celsius temperature, convert the temperature to Fahrenheit, and print out the converted temperature.

(note: convert the user entered text to numbers using the float function)