**Joe Herrera**

**CS117**

**10/5/2016**

**LAB 1**

**Part 1**

Code:

*#Progam Purpose: Lab 1 assignment  
#Progammer: Joe Herrera  
#CS117 Section 1610 CS13-01  
#Lab 1, Part 1***def** main():  
  
 print(**"Welcome to the wonderful world of Python programming!"**)  
  
main()

Execution:

Welcome to the wonderful world of Python programming!

**Part 2**

Code:

*#Progam Purpose: Lab 1 assignment  
#Progammer: Joe Herrera  
#CS117 Section 1610 CS13-01  
#Lab 1, Part 2***def** main():  
 integer1 = eval(input(**"Enter first integer: "**)) *# prompt and enter first integer* integer2 = eval(input(**"Enter second integer: "**)) *# prompt and enter second integer* sum = integer1 + integer2 *# generate and assign the sum* print(**"The sum of"**, integer1, **"and"**, integer2,  
 **"is"**, sum) *# print sum* difference = integer1 - integer2 *# assignment of difference* print(**"The difference of"**, integer1, **"minus"**,  
 integer2, **"is"**, difference) *#print difference*main()

Execution:

Enter first integer: 5

Enter second integer: 2

The sum of 5 and 2 is 7

The difference of 5 minus 2 is 3

**Part 3**

Code:

*#Progam Purpose: Lab 1 assignment  
#Progammer: Joe Herrera  
#CS117 Section 1610 CS13-01  
#Lab 1, Part 3***def** main():  
 *#integer1 = eval(input("Enter first integer: ")) # prompt and enter first integer* integer2 = eval(input(**"Enter second integer: "**)) *# prompt and enter second integer* sum = integer1 + integer2 *# generate and assign the sum* print(**"The sum of"**, integer1, **"and"**, integer2,  
 **"is"**, sum) *# print sum* difference = integer1 - integer2 *# assignment of difference* print(**"The difference of"**, integer1, **"minus"**,  
 integer2, **"is"**, difference) *#print difference*main()

Execution:

Enter second integer: 5

Traceback (most recent call last):

File "C:/Users/joe.herrera/PycharmProjects/CS117/Week1/Pt3.py", line 11, in <module>

main()

File "C:/Users/joe.herrera/PycharmProjects/CS117/Week1/Pt3.py", line 4, in main

sum = integer1 + integer2 # generate and assign the sum

NameError: name 'integer1' is not defined

**Part 4**

Code:

*#Progam Purpose: Lab 1 assignment  
#Progammer: Joe Herrera  
#CS117 Section 1610 CS13-01  
#Lab 1, Part 4***def** main():  
 integer1 = eval(input(**"Enter first integer: "**)) *# prompt and enter first integer* integer2 = eval(input(**"Enter second integer: "**)) *# prompt and enter second integer  
 #sum = integer1 + integer2 # generate and assign the sum* print(**"The sum of"**, integer1, **"and"**, integer2,  
 **"is"**, sum) *# print sum* difference = integer1 - integer2 *# assignment of difference* print(**"The difference of"**, integer1, **"minus"**,  
 integer2, **"is"**, difference) *#print difference*main()

Execution:

Enter first integer: 2

Enter second integer: 5

The sum of 2 and 5 is <built-in function sum>

The difference of 2 minus 5 is -3

**Part 5**

Code:

*#Progam Purpose: Lab 1 assignment  
#Progammer: Joe Herrera  
#CS117 Section 1610 CS13-01  
#Lab 1, Part 5***def** main():  
 integer1 = eval(input(**"Enter first integer: "**)) *# prompt and enter first integer* integer2 = eval(input(**"Enter second integer: "**)) *# prompt and enter second integer* sum = integer1 + integer2 *# generate and assign the sum* print(**"The sum of"**, integer1, **"and"**, integer2,  
 **"is"**, sum) *# print sum  
 #difference = integer1 - integer2 # assignment of difference* print(**"The difference of"**, integer1, **"minus"**,  
 integer2, **"is"**, difference) *#print difference*main()

Execution:

Enter first integer: 2

Enter second integer: 5

Traceback (most recent call last):

File "C:/Users/joe.herrera/PycharmProjects/CS117/Week1/Pt5.py", line 11, in <module>

main()

File "C:/Users/joe.herrera/PycharmProjects/CS117/Week1/Pt5.py", line 9, in main

integer2, "is", difference) #print difference

NameError: name 'difference' is not defined

The sum of 2 and 5 is 7

**Part 6**

Code:

*#Progam Purpose: Lab 1 assignment  
#Progammer: Joe Herrera  
#CS117 Section 1610 CS13-01  
#Lab 1, Part 6***def** main():  
 Fahrenheit = eval(input(**"Enter Fahrenheit temperature: "**)) *# prompt and enter Fahrenheit temp* Celsius = 5.0/9.0\*(Fahrenheit-32.0) *#conversion* print(**"Fahrenheit temperature is: "**, Fahrenheit) *# print Fahrenheit* print(**"Celsius temperature is: "**, Celsius) *# print Celsius*main()

Execution:

Enter Fahrenheit temperature: 75.5

Fahrenheit temperature is: 75.5

Celsius temperature is: 24.166666666666668

Enter Fahrenheit temperature: 32.0

Fahrenheit temperature is: 32.0

Celsius temperature is: 0.0

Enter Fahrenheit temperature: -459.4

Fahrenheit temperature is: -459.4

Celsius temperature is: -273.0

Enter Fahrenheit temperature: -40.0

Fahrenheit temperature is: -40.0

Celsius temperature is: -40.0

Enter Fahrenheit temperature: 100.0

Fahrenheit temperature is: 100.0

Celsius temperature is: 37.77777777777778

Enter Fahrenheit temperature: 212.0

Fahrenheit temperature is: 212.0

Celsius temperature is: 100.0