PYTHON ASSIGNMENT BOOK

MAKE A MOVE TO PYTHON

**ASSIGNMENTS**

**TASK ONE: NUMBERS AND VARIABLES**

1. Create three variables in a single a line and assign different values to them and make sure their data types are different. Like one is int, another one is float and the last one is a string.

x, y, z = 5, 5.5, “Python Assignment 2”

2. Create a variable of value type complex and swap it with another variable whose value is an integer.

x = complex(4.555)

y = 6

x = y

3. Swap two numbers using the third variable as the result name and do the same task without using any third variable.

Using third variable:

x = 5

y= 8

temp = x

x = y

y= temp

Without using third variable:

x = 5

y = 8

x, y = y, x

4. Write a program to print the value given by the user by using both Python 2.x and Python 3.x Version.

Python 2:

name = raw\_input(“”Enter your name: “)

Python 3:

name = input(“Enter your name: ”)

5. Write a program to complete the task given below:

* Ask the user to enter any 2 numbers in between 1-10 and add both of them to another variable call z.
* Use z for adding 30 into it and print the final result by using variable result.

x = int(input(“Enter a number between 1-10: “))

y = int(input(“Enter another number between 1-10: “))

z = x + y

result = z + 30

print(result)

6. Write a program to check the data type of the entered values. HINT: Printed output should say - The input value data type is: int/float/string/etc

x = input("Enter a value: ")  
if x.isdigit():  
 print("The input value data type is: int")  
elif '.' in x:  
 print("The input value data type is: float")  
elif x.isalpha():  
 print("The input value data type is: string")  
else:  
 print("The input value data type is: etc")

7. Create Variable using CamelCase, LadderCase and UPPERCASE. (Refer: <https://capitalizemytitle.com/camel-case/>) - Variable Conventions to write

Two types of CamelCase:

i)Lower Camel Case: theAmountOfApples = 45

ii)Upper Camel Case: TheAmountOfApples = 45

LadderCase:

the\_amount\_of\_apples = 45

UPPERCASE:

THE\_AMOUNT\_OF\_APPLES = 45

8. If one data type value is assigned to ‘a’ variable and then a different data type value is assigned to ‘a’ again. Will it change the value? If Yes then Why?

Yes. It will change the data type value. When variable ‘a’ gets assigned a different data type value, it also changes this information with the most recent value in the memory location.