Lesson 2 Text and Numbers in Python

Worksheet

K-W-L Chart

What I Know	What I Wonder	What I Learned

New Commands: make a list of all the new Python commands you learn throughout the lesson

Activity 1:

Look at the example program below and try to identify the data types (what will be outputted onto the console).

```
1  print("What's your name?")
2  print(type("What's your name?"))
3
4  print(2160 - 439 - 57)
5  print(type(2160 - 439 - 57))
6
7  print(40257 / 1917)
8  print(type(40257 / 1917))
9
10 input("How old are you? Your answer: ")
11 print(type(input("How old are you? Your answer: ")))
12
13 int(input("How old are you? Your answer: "))
14
15 float(input("How tall are you? Your answer:(metre) "))
```

Task 1: Calculate the expressions below and determine the type of data of the results:

100000 + 365.12 = ?

1989.12 - 917.8 = ?

36.6 × 50.1 = ?

100.25 × 40 = ?

3.3^{10} = ?

2501 mod 2.5 = ?

Tick the box to record the data type of the result produced by the Python Calculator:

Data Type	Operation	Data Type	Data Type of Result
Integer	+	Integer	□ Integer □ Floating-point number
Integer	–	Floating-point	□ Integer □ Floating-point number

Data Type	Operation	Data Type	Data Type of Result
Floating-point		Floating-point	□ Integer □ Floating-point number
Integer	*	Integer	□ Integer □ Floating-point number
Integer		Floating-point	□ Integer □ Floating-point number
Floating-point		Floating-point	□ Integer □ Floating-point number
Integer	/	Integer	□ Integer □ Floating-point number
Integer		Floating-point	□ Integer □ Floating-point number
Floating-point		Floating-point	□ Integer □ Floating-point number
Integer	**	N/A	□ Integer □ Floating-point number
Floating-point			□ Integer □ Floating-point number
Integer	%	Integer	□ Integer □ Floating-point number
Integer		Floating-point	□ Integer □ Floating-point number

Task 2: Read the script below and identify a new function:

```
1. print(type(input("What's your name? Your answer: ")))
2. print(type(input("How old are you? Your answer: ")))
3. print(type(input("How tall are you? Your answer:(metre) ")))
```

Script	Prediction	Test Result
print(type(input("What's your name? Your answer: ”)))		
print(type(input("How old are you? Your answer: ”)))		
print(type(input("How tall are you? Your answer:(metre) ”)))		

Task 3: Modify the script below and convert the data types of the input information:

```
1. print(type(input("Your school's postcode: ")))
2. print(type(input("Your school's name: ")))
3. print(type(input("Street/Block number nearby: ")))
4. print(type(input("Your body temperature:(°C) ")))
5. print(type(input("Today's temperature:(°C) ")))
6. print(type(input("Your lucky number: ")))
```

Extension:

Create your own program similar to Task 3. The program should ask the user for their student number, name, grade, and height. You should typecast the input to what they think is appropriate and explain.