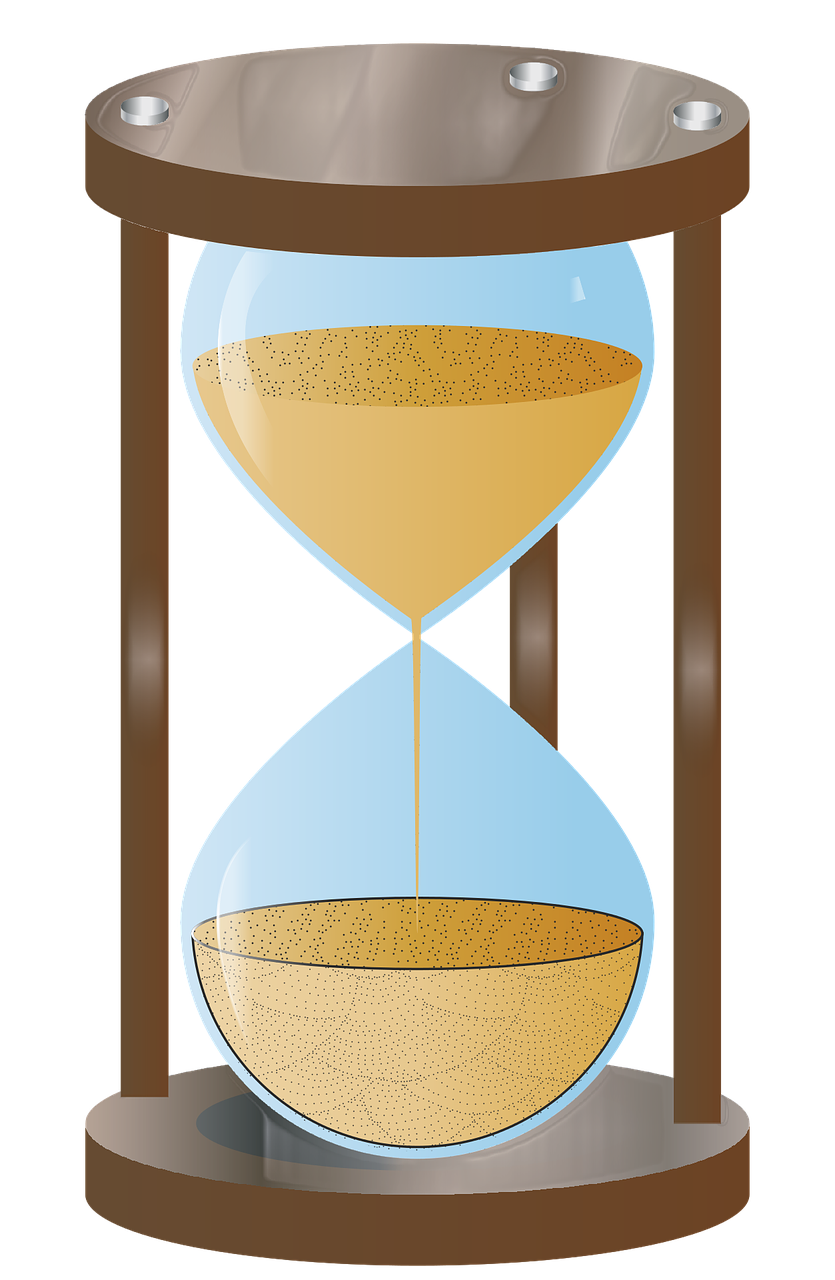
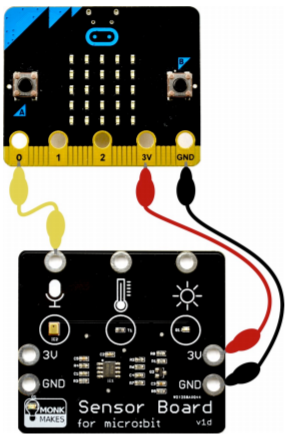
Plenary – answers

Q1. What data type would python assign to this input: x = ‘jupiter’

1. floating point
2. integer
3. **string**
4. boolean

Q2. What command do you need to apply to cast x as a whole number?

1. **int(x)**
2. integer(x)
3. whole(x)
4. decimal(x)



Q3. What would the output be for this code be:

x=44.4

y=38

print(x+y)

1. 82
2. Eight two point four
3. **82.4**
4. 44.4

Q4. Which one of the following statements is true?

1. **Implicit type conversion is automatically performed by the python interpreter**
2. You always need to specify a data type when you create a variable
3. You just need to specify a data type if you want it to be a float
4. Implicit type conversion is when the programmer specifies the data type

Q5. Which of the following statements is true?:

1. Once a variable has been set as a particular data type that cannot change
2. The data type of a variable can only change once
3. Explicit Type Conversion is automatically performed by the python interpreter
4. **Explicit Type Conversion is also called Type Casting, the data types of objects are converted using predefined functions by the user.**

Q6. What would be the output for this:

x = 2.6

print (int(x))

1. 2.6
2. ‘2.6’
3. 3
4. **2**

Q7. Which of the following statements is true?

1. **In Type Casting, loss of data may occur as we enforce the object to a specific data type**
2. In Type Casting data is always protected
3. In Type Casting data can also be added to (or increased in size) as numbers are rounded up
4. In Type Casting a string cannot become an integer

Q8. What would be the output after this code:

num\_int = 22

num\_str = "44"

print("Data type of num\_int:",type(num\_int))

print("Data type of num\_str:",type(num\_str))

print(num\_int+num\_str)

1. **Error message meaning….one of the variables is not a data type that can be added**
2. 22 + 44
3. 66
4. 22

Q9. How could you add a number which is currently cast as a string to an integer?

1. **You need to cast the string as a float or an integer**
2. You need to cast them both as strings
3. You can’t
4. You need to cast them both as floats

Q10. What does the MonkMakes slider do?

1. It converts a voltage level into a digital value that can be stored and processed in a computer
2. It converts electricity into a data for the computer
3. **It allows you to interact with your micro:bit by sliding it left and right**
4. Without any programming it permits you to turn the micro:bit on and off