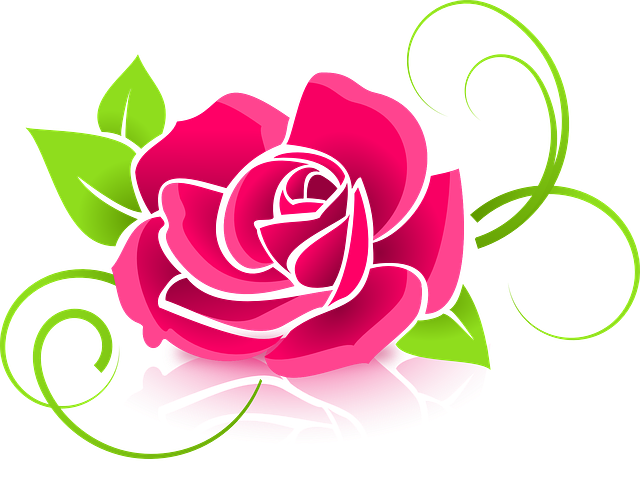
Plenary – answers

Q1. Which of these is a tuple?

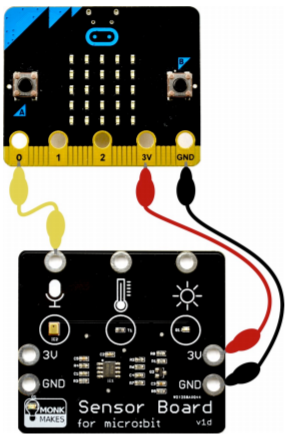
1. flowers = ["rose", "daffodil", "gladioli"]
2. **flowers = (“rose”, “daffodil”, “gladioli”, “gladioli”)**
3. flowers = {"rose", "daffodil", "gladioli"}
4. flowers = “rose”, “daffodil”, “gladioli”

Q2. What data type would python assign to this input: x = ‘20’

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

Q3. 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)



Q4. 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

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. Which of the following statements is true?

1. **If you want the loop to break based on a condition other than the number of times it runs, you should use a while loop.**
2. If you want the loop to break based on a condition other than the number of times it runs, you should use a for loop.
3. You should use a while loop when you know how many times the loop should run.
4. For and while loops do exactly the same job

Q7. What is the output of this code?

for x in range (100,50,-20):

print x

1. 0

20

40

60

80

100

1. **100**

**80**

**60**

1. -20

0

20

40

1. 50

30

Q8. When would you need to include an extra comma after an entry in a tuple?:

1. When the tuple is for collecting punctuation
2. **When the tuple only contains one entry**
3. When the tuple contains more than one entry
4. When the tuple contains negative numbers

Q9. Why would you use a list instead of a tuple?

1. When you need to have duplicates in your collection
2. When you need to have strings and integers in the same collection
3. **When you need to add items to collection**
4. When you need to make your program more memory efficient

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