**Level 6: The Digital Lab**

**Lists**

**MCQs:**

1. Which method is used to add an element to the end of a list?  
   a) insert()  
   b) append() ✅  
   c) add()  
   d) extend()
2. What does my\_list.pop(2) do?  
   a) Removes the first element  
   b) Removes the third element ✅  
   c) Removes the last element  
   d) Returns an error

**Fill in the Blanks:**

1. Lists in Python are \_\_\_\_\_\_\_\_\_\_, meaning their elements can be changed. (mutable)
2. The remove() method is used to remove an element by \_\_\_\_\_\_\_\_\_\_. (value)

**True/False:**

1. Lists can contain different data types. (True ✅)
2. The sort() method changes the original list. (True ✅)
3. A list cannot store duplicate values. (False ❌)

**Dictionaries**

**MCQs:**

1. What does dict.keys() return?  
   a) List of values  
   b) List of keys ✅  
   c) List of tuples  
   d) Single key
2. How do you access the value of a key in a dictionary?  
   a) dict.get(key) ✅  
   b) dict[key] ✅  
   c) Both a and b ✅  
   d) None

**Fill in the Blanks:**

1. Dictionaries store data in \_\_\_\_\_\_\_\_\_\_ pairs. (key-value)
2. The values() method returns all the \_\_\_\_\_\_\_\_\_\_ in a dictionary. (values)

**True/False:**

1. Dictionary keys must be unique. (True ✅)
2. Dictionaries allow duplicate keys. (False ❌)
3. The update() method merges two dictionaries. (True ✅)
4. del can be used to remove a key-value pair from a dictionary. (True ✅)