**LIST**

Refresher

**Example 1: List Notation**

In Python, a list of objects is represented by square brackets

e.g.,

mylist = **[** ″red″, ″blue″, ″green″ **]**

We can have list of any type of data we want: strings, integers or even a list of more lists!

**Exercise 2:**

**Using the above examples, write the following codes. Keep all of the lists as you will need it for the next exercises.**

1. **Create a list with the alphabets.**
2. **Create a list of countries.**
3. **Create a list of colours.**
4. **Create a list of your favourite subjects.**

**Example 2: Accessing Elements**

Elements in lists are numbered, starting from 0. We can get at specific elements using square brackets notation.

e.g.,

mylist = **[** ″red″, ″blue″, ″green″ **]**

**print(** mylist**[**1**] )**

This would **print** the answer ″blue″ as “blue” is in position 1.

**Exercise 2:**

**Using the lists from exercise 1.**

1. **Print the 3rd country in the list.**
2. **Print the last letter of the alphabets.**
3. **Print the 2nd colour in the list.**
4. **Print the 1st Subject in the list.**
5. **.**

**Example 3: Adding and Removing**

If we want to add a new element to the list, we can use the **append()** command.

e.g.,

mylist.**append(**″purple″**)**

If we want to remove an element from the list, we can use the **remove()** command.

e.g.,

mylist.**remove(**″red″**)**

**Note:** If you try to remove something not in the list it will throw an error!

**Exercise 3:**

**Adding and removing from your lists.**

1. **Remove 5 letters from the alphabet list.**
2. **Add 5 numbers to your alphabet list.**
3. **Add 3 more subjects to the subject list.**
4. **Remove 3 countries from the list and add 3 cities.**

**Example 4: Presence Checks**

If you want to check if an element is in a list, we can use the **in** keyword:

e.g.,

**if** ″red″ **in** mylist:

**print(**mylist**)**

**else**:

**print(**″Red isn’t in the list...″**)**

**Exercise 4:**

1. **Try the example above on your lists.**
2. **Change the if statement. Put the condition ‘if purple is not in the list then add it to the list and then print the new list’**

**Example 4a: Presence Checks**

e.g.,

**if** ″red″ **in** mylist:

**print(**‘Red is in mylist’**)**

**else**:

mylist.append(‘red’)

**print(**″Red has been added to the list″**)**

**print(**‘New List’ + mylist**)**

**Project Task: List creation**

1. **From the homework flow chart. Create a list of Apple product Items.**

**Note: make sure the lists are in the right categories.**

**List Example :**

**Try createing a list in this format.**

