Year 9 spring 1 Computing: Python

A) Key knowledge		B) Key knowledge		C) Key knowledge		D) Key knowledge	
Input	Reads data from the keyboard	**Selection**	If-elif-else statements which control the flow of program execution	**In #1**	The in operator checks if a value is equal to any item in a list – evaluates to True or False	**For loops**	Convenient for iterating over items of a list (or a string)
Print	Displays to the screen	**List**	A comma-separated list of values (items) in square brackets	**In #2**	The in operator checks if a string is contained in another string – evaluates to True or False	**Assignment**	Passing a value to a variable
While	Performs actions repeatedly	**Data structures**	Organised collections of data	**Iterative structure (while)**	Used when your program needs to repeat actions, while a condition is satisfied	**Logical expression**	Comparing two values, evaluates to either True or False
If	Checks a condition to see which actions to perform	**Len #1**	The built-in len function returns the length (number of items) of a list	**Index #1**	An item in a list can be accessed through its index	**List item**	A value stored in a list
=	Assigns a value to a variable	**Len #2**	The built-in len function returns the length (number of characters) of a string	**Index #2**	An character in a string can be accessed through its index	**List operations**	Append, insert, pop, remove, index, count, reverse, sort, length
Homework: Write a Python program that uses an IF / ELIF / ELSE statement.		**Homework:** Write a Python program that uses a WHILE loop.		**Homework:** Write a Python program that uses a FOR loop.		**Homework:** Write a Python program that uses a FOR loop to read every value in a list.	