**Study Sheet -1** **|** Lower Secondary

Stage (6-8)

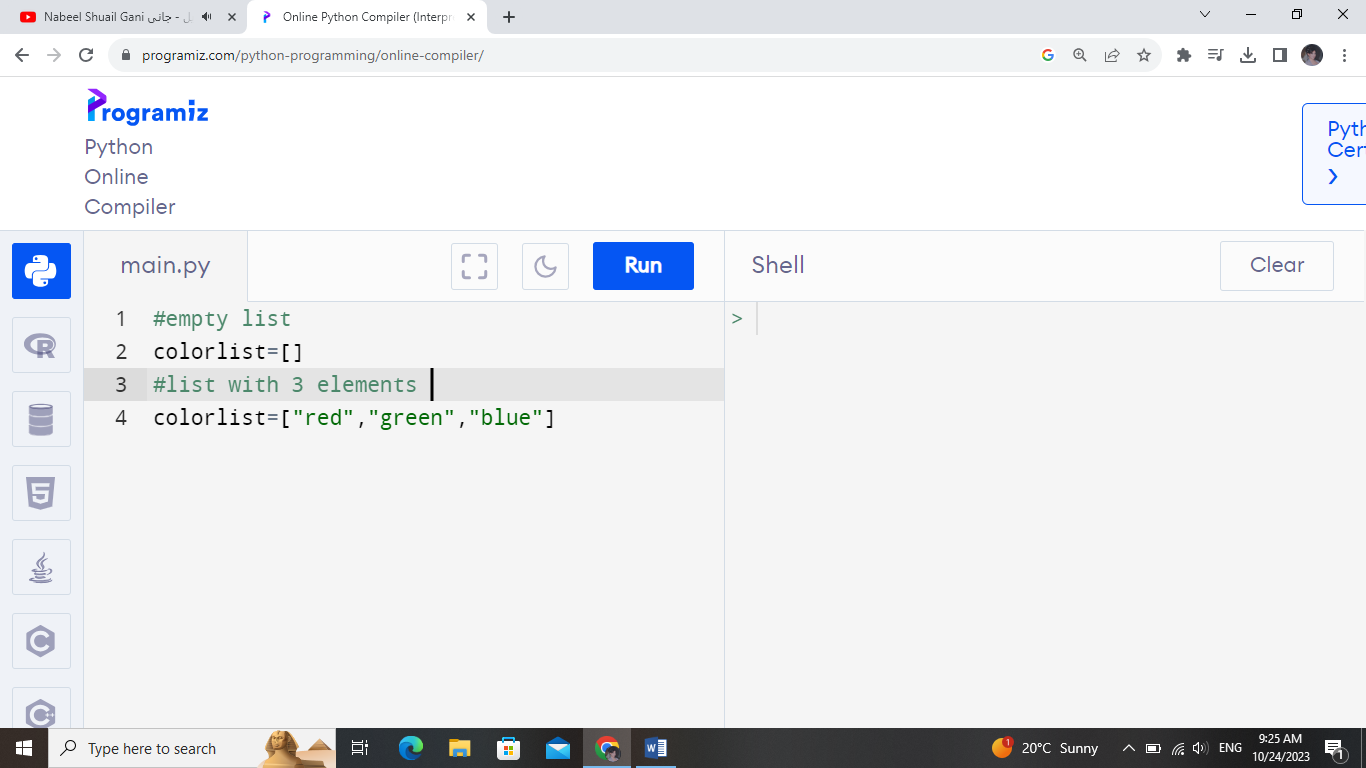
1st Semester | 2023-2024

|  |  |
| --- | --- |
| **Subject:** ICT | **Chapter:** 3  (Programming Language) List in Python |
| Grade: 8  Objectives:   * How to store a series of items as a list. * How to add, delete and edit items in the list. * Sort, length, remove, | |

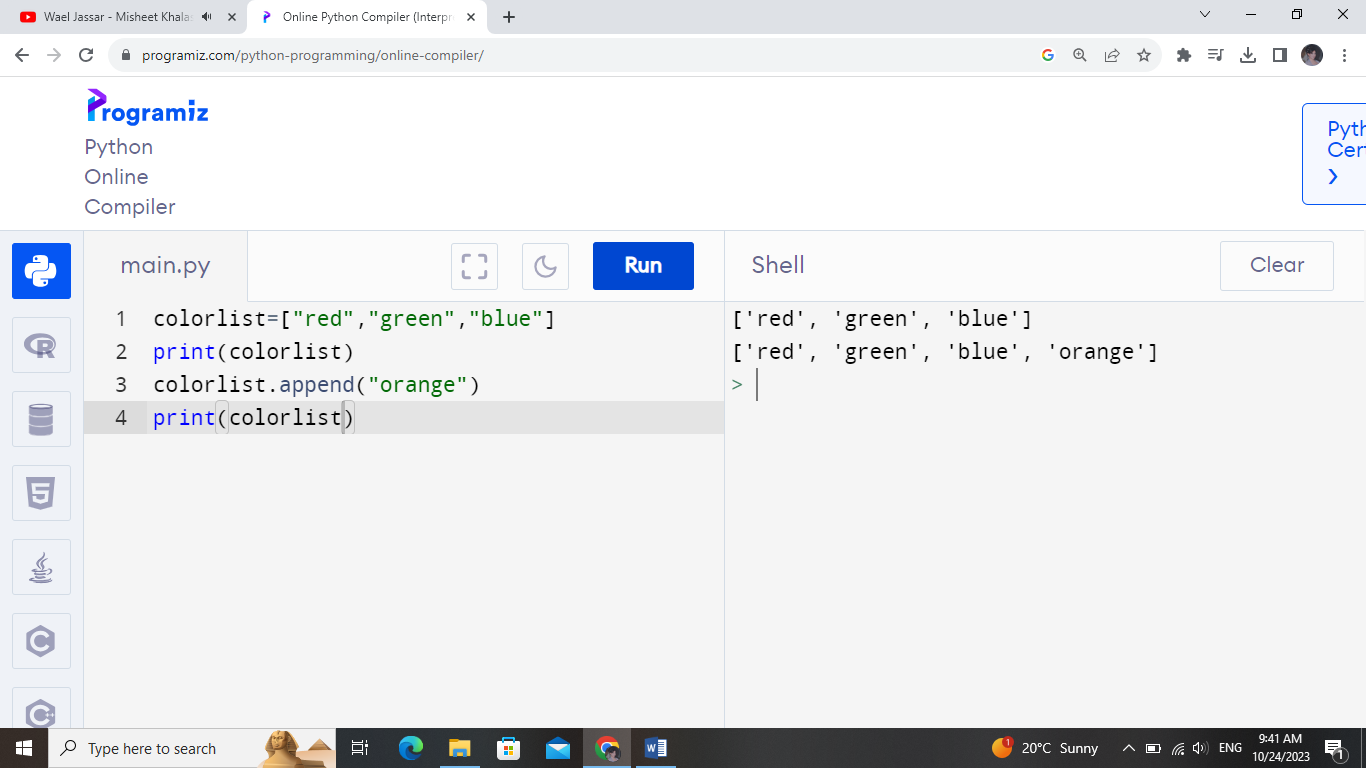
**List syntax:**

**Name\_of\_list= [element1, element2, ……….]**

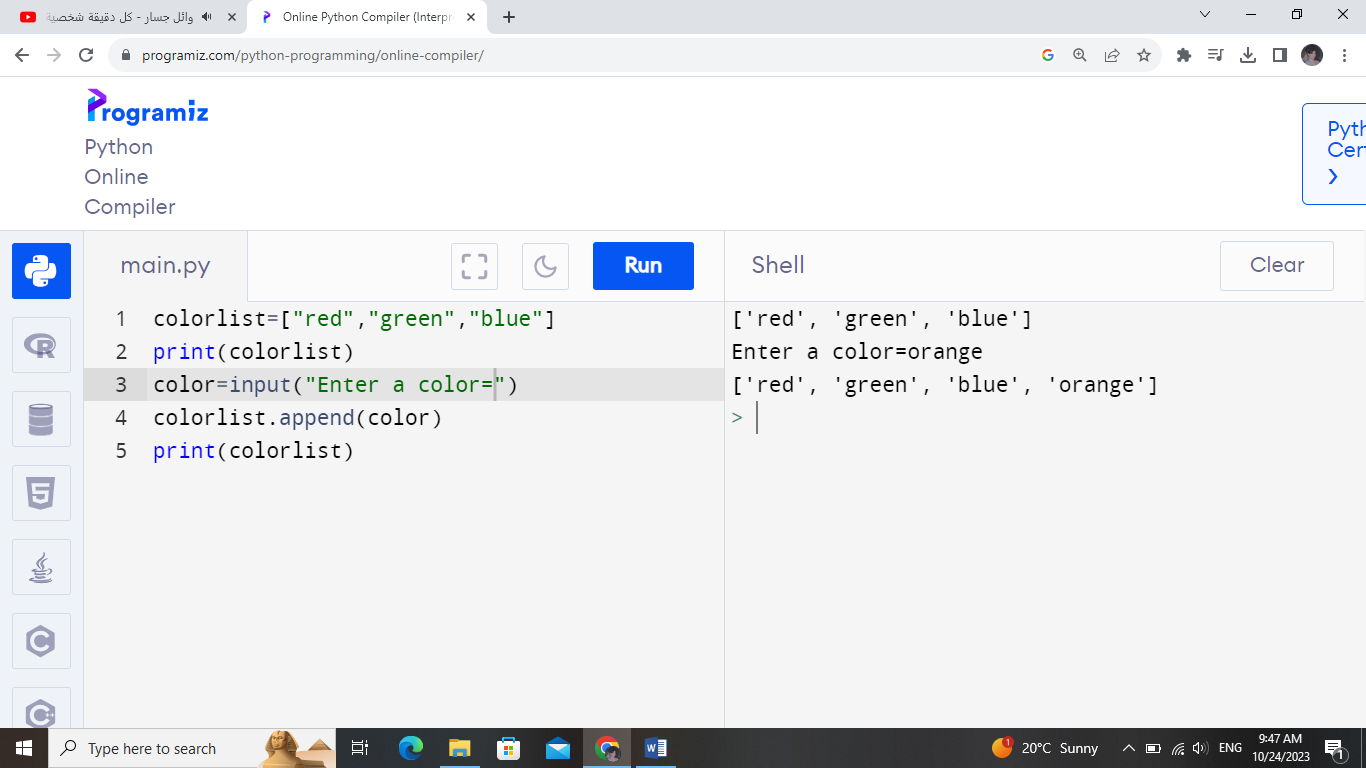
Example:



**The append () method adds an item to the end of the list.**



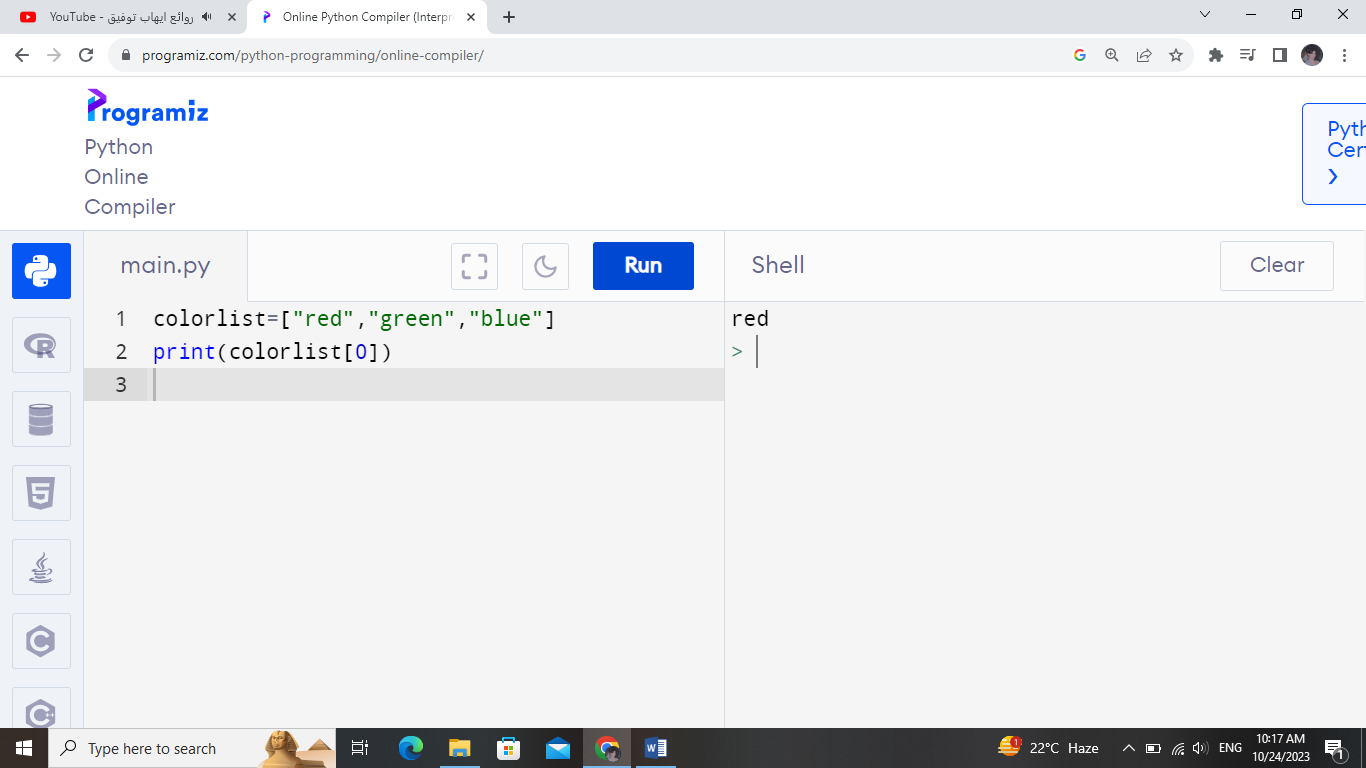
**Get input from the user and add the value to the list**



**Index Number: is the position of the element in the list.**

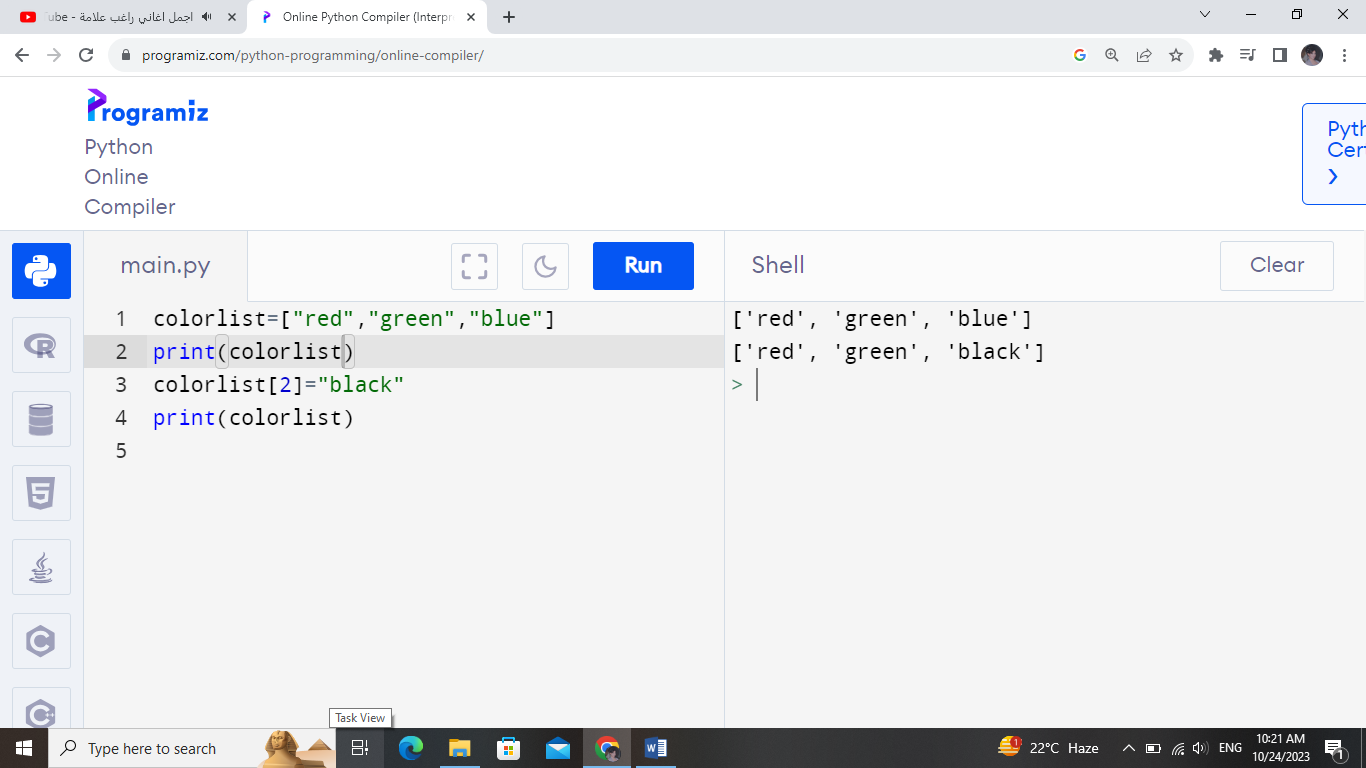
|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Element** | Element 1 | Element 2 | Element 3 | Element 4 | Element 5 |
| **Index** | 0 | 1 | 2 | 3 | 4 |

**For example, to print the first element**

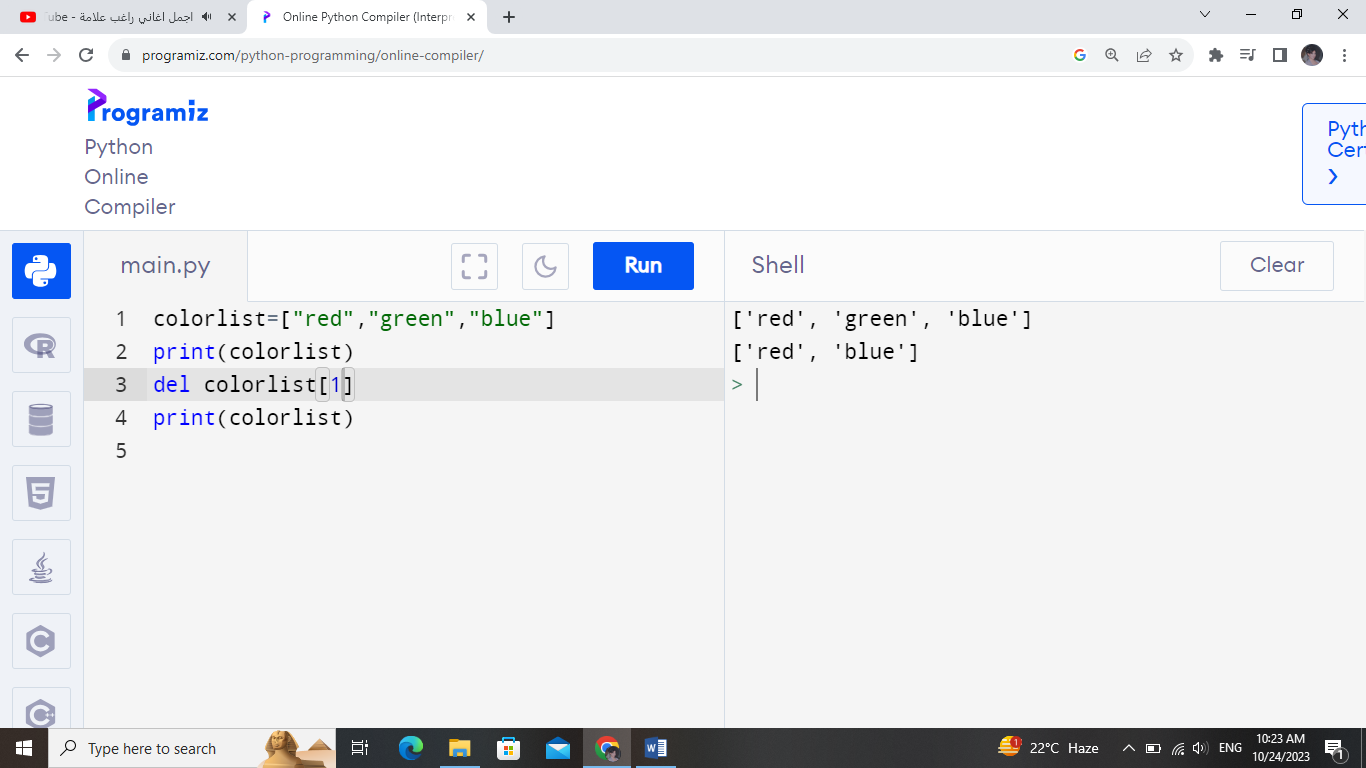


**Edit an element:**

**Change the last element in the list:**

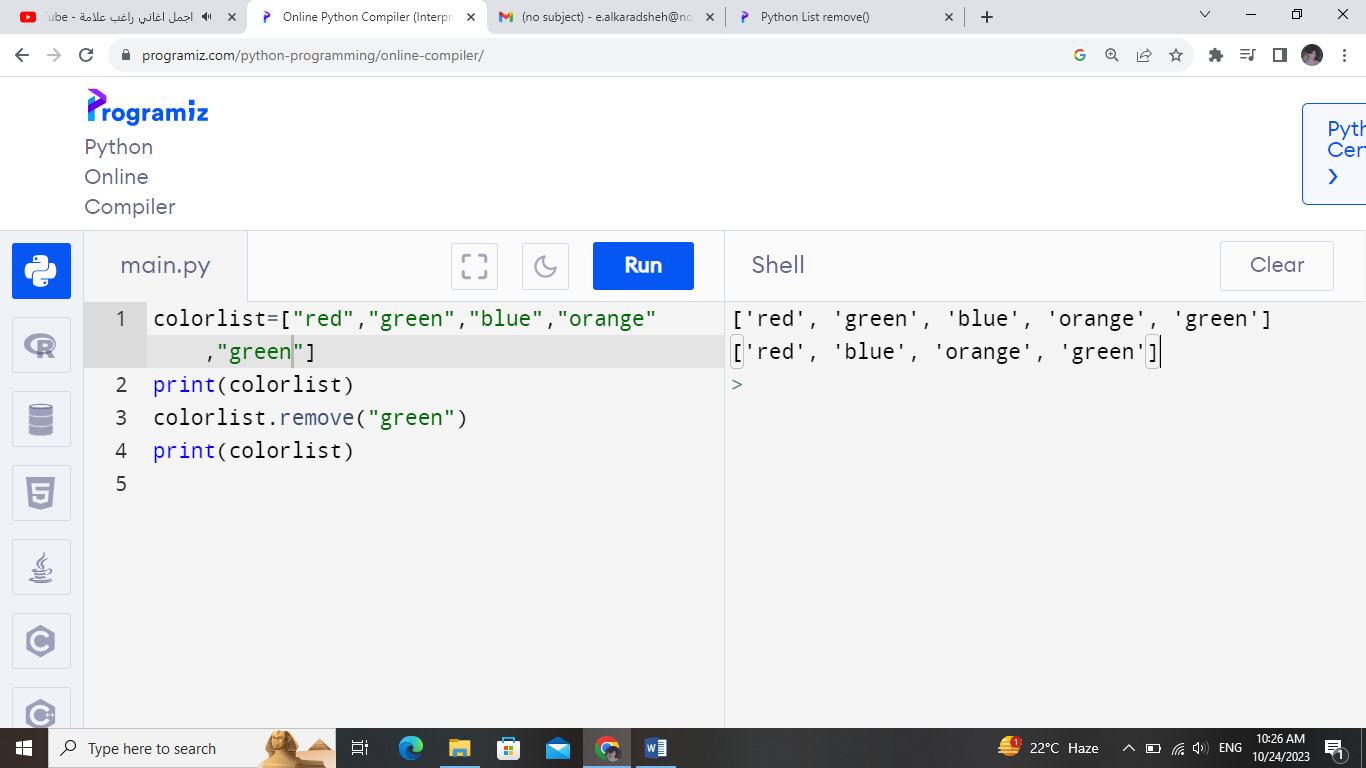


**Delete an element (using its index):**

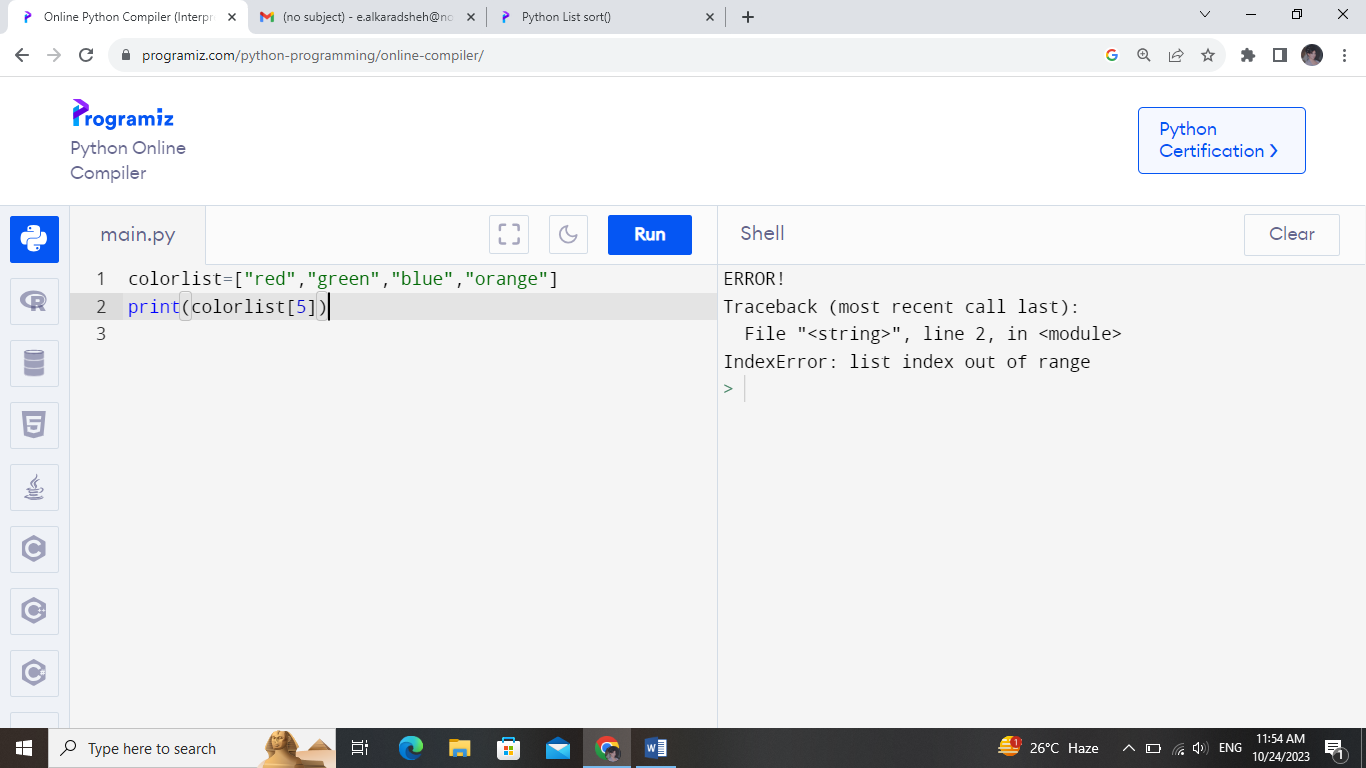


**Delete an element (using its value):**

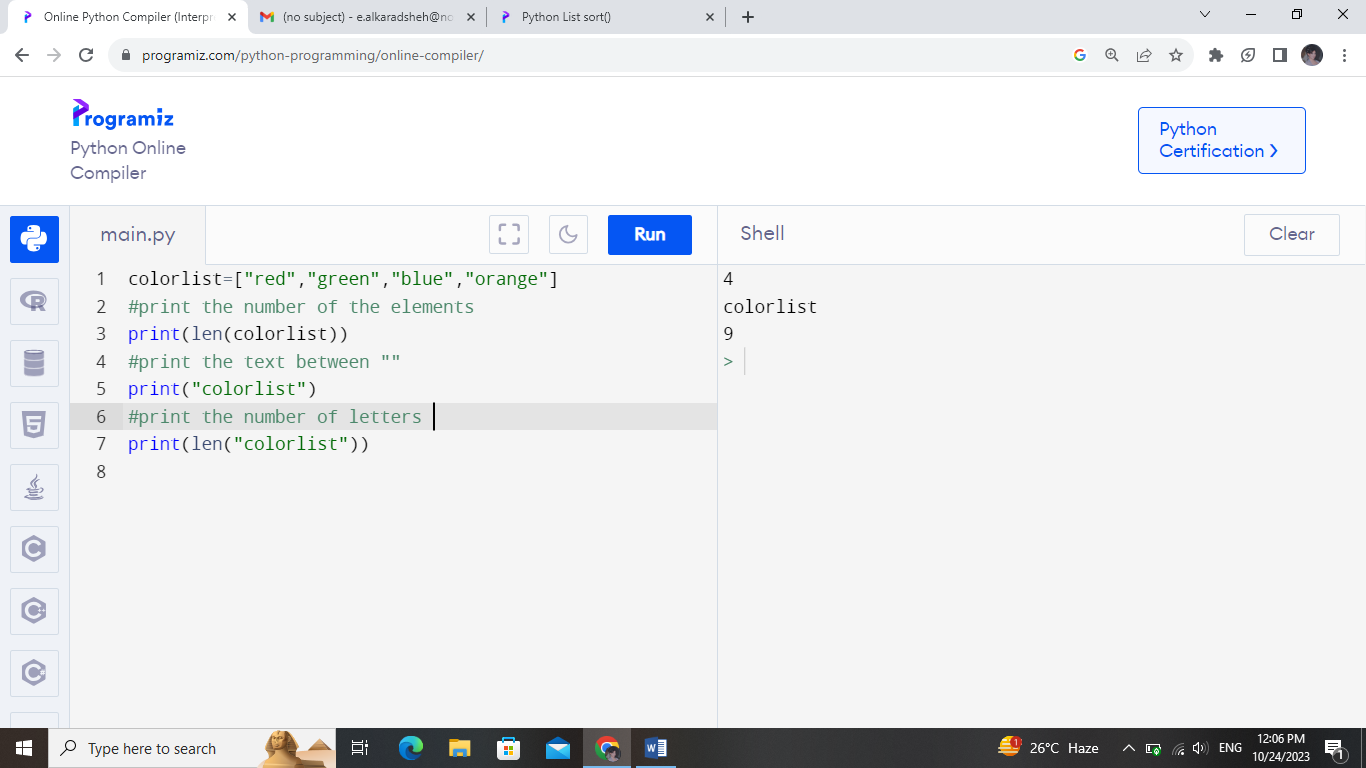
**The remove () method removes the first matching element (which is passed as an argument) from the list.**



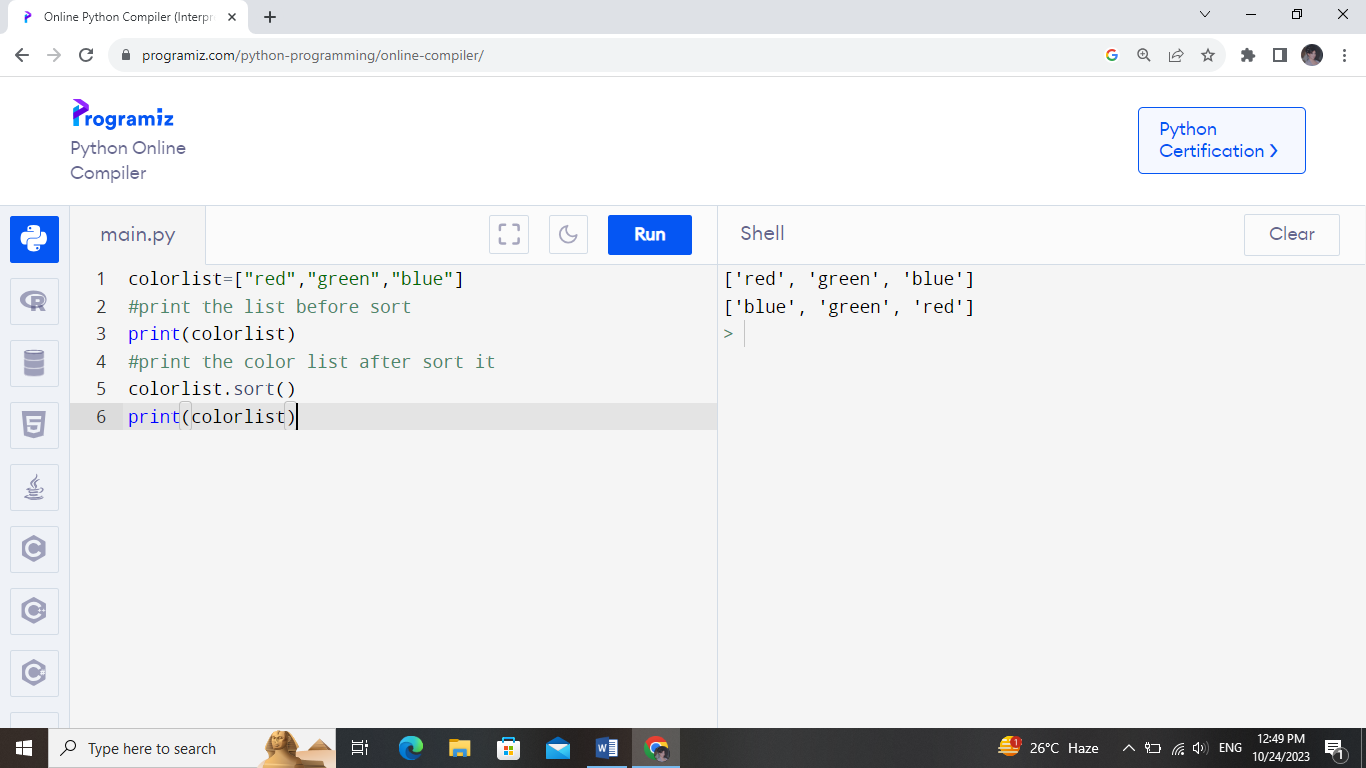
**Note:   
If you enter a number exceeding the index of the last element, it is an error**

**This type of error is called an out-of-bounds error.** 

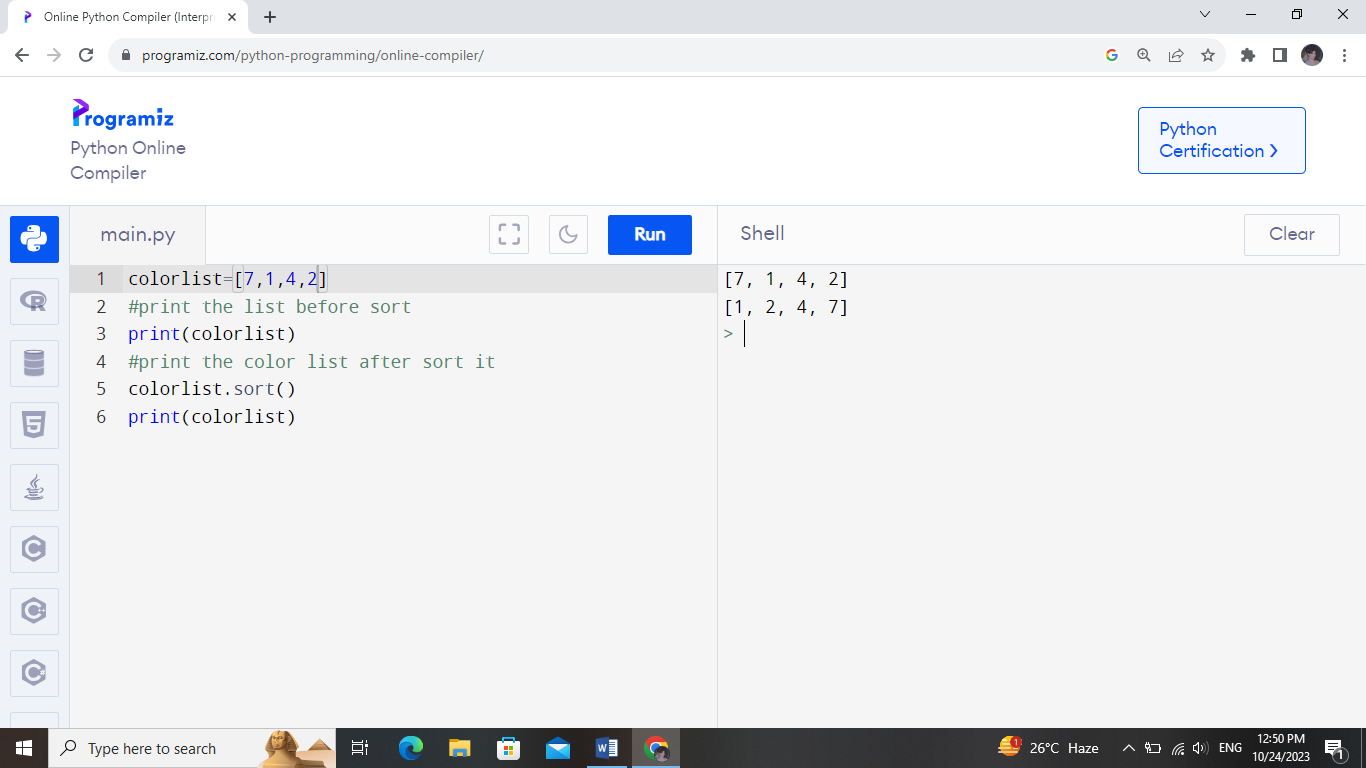
**The len() method tells the length of a string or a list.**



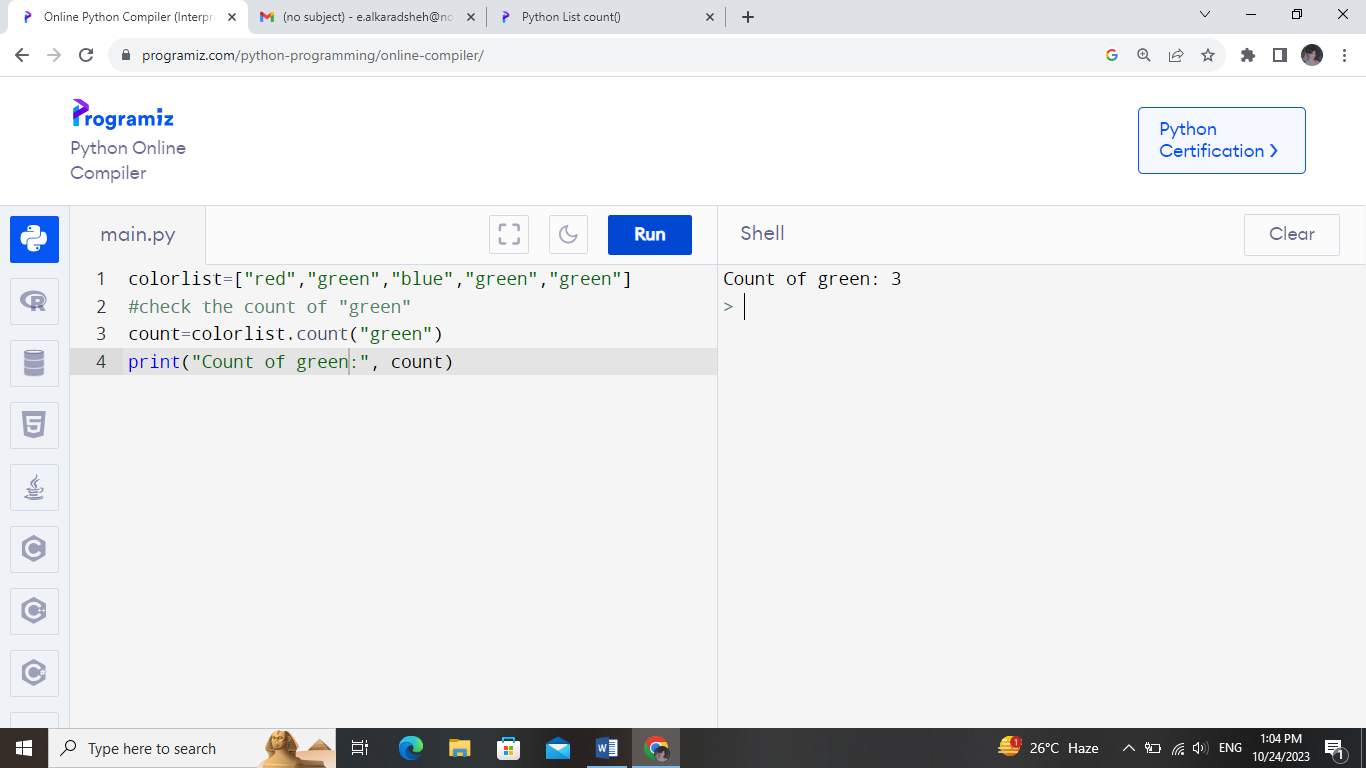
**The sort () method sorts the items of a list in ascending or descending order.**



**Also, sort the numbers**



**The count () method returns the number of times the specified element appears in the list.**



**The reverse () method reverses the elements of the list.**

