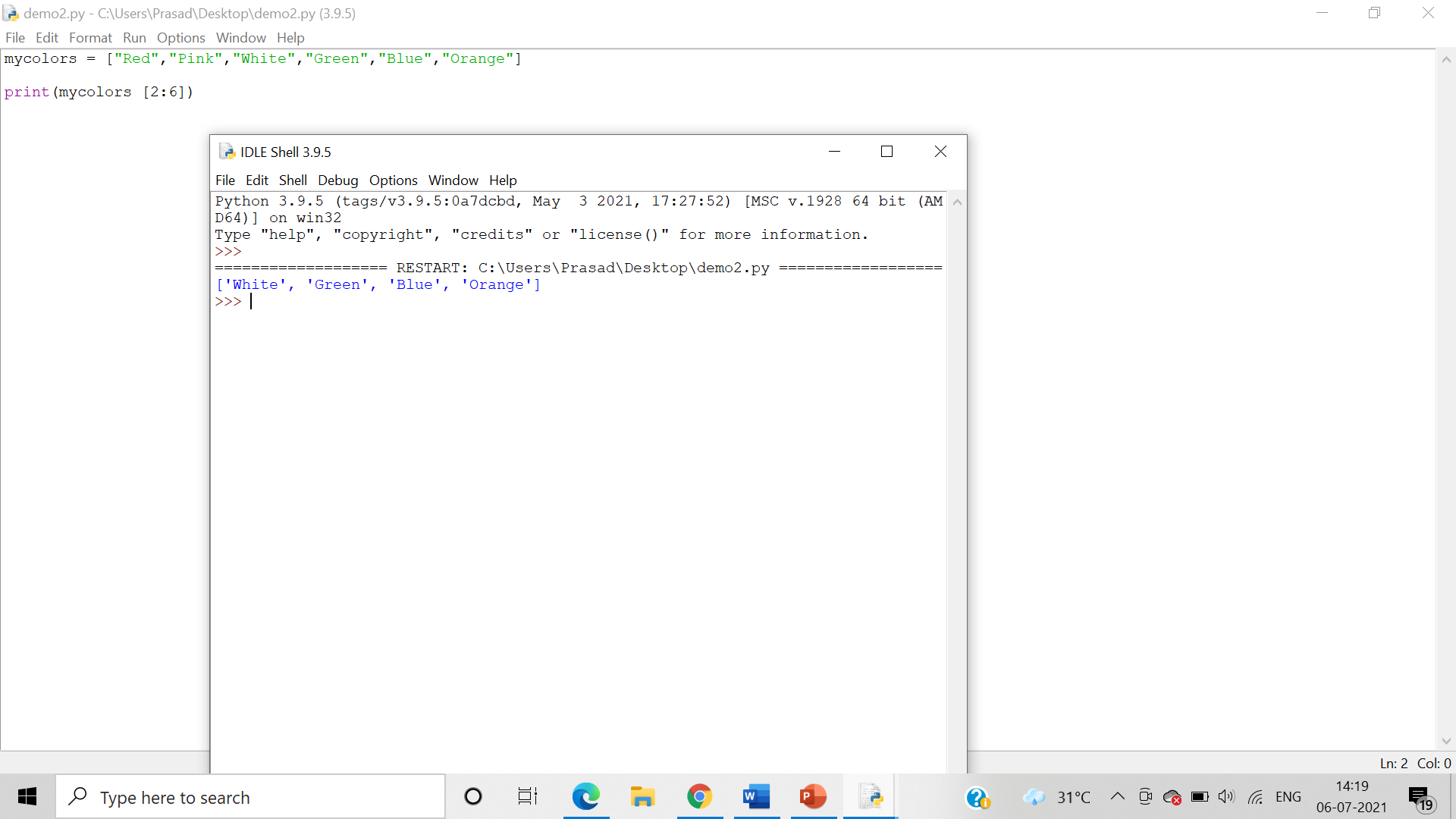
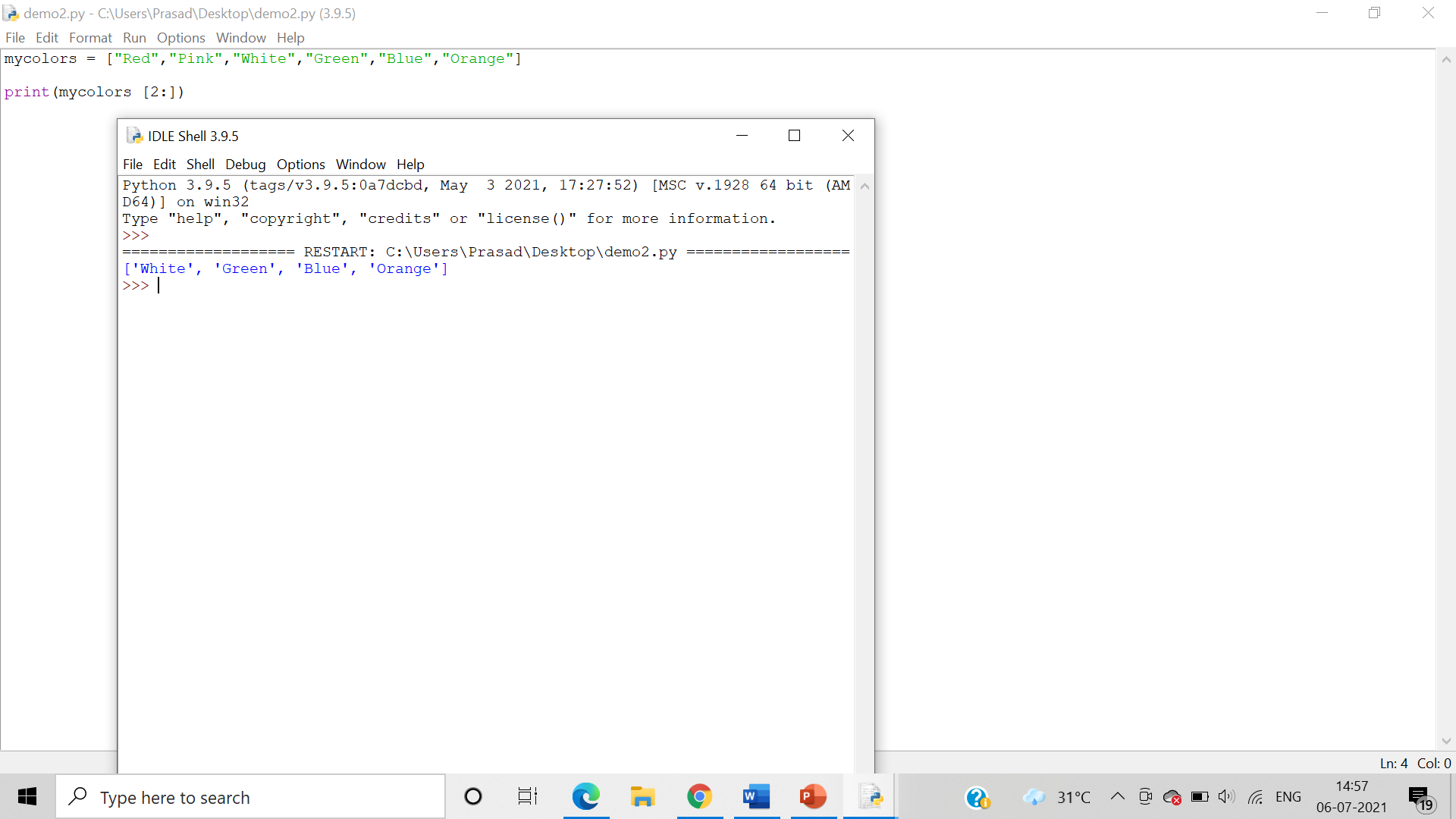
**Python and Bio-Python**

Assignment 3

Practical Solving:

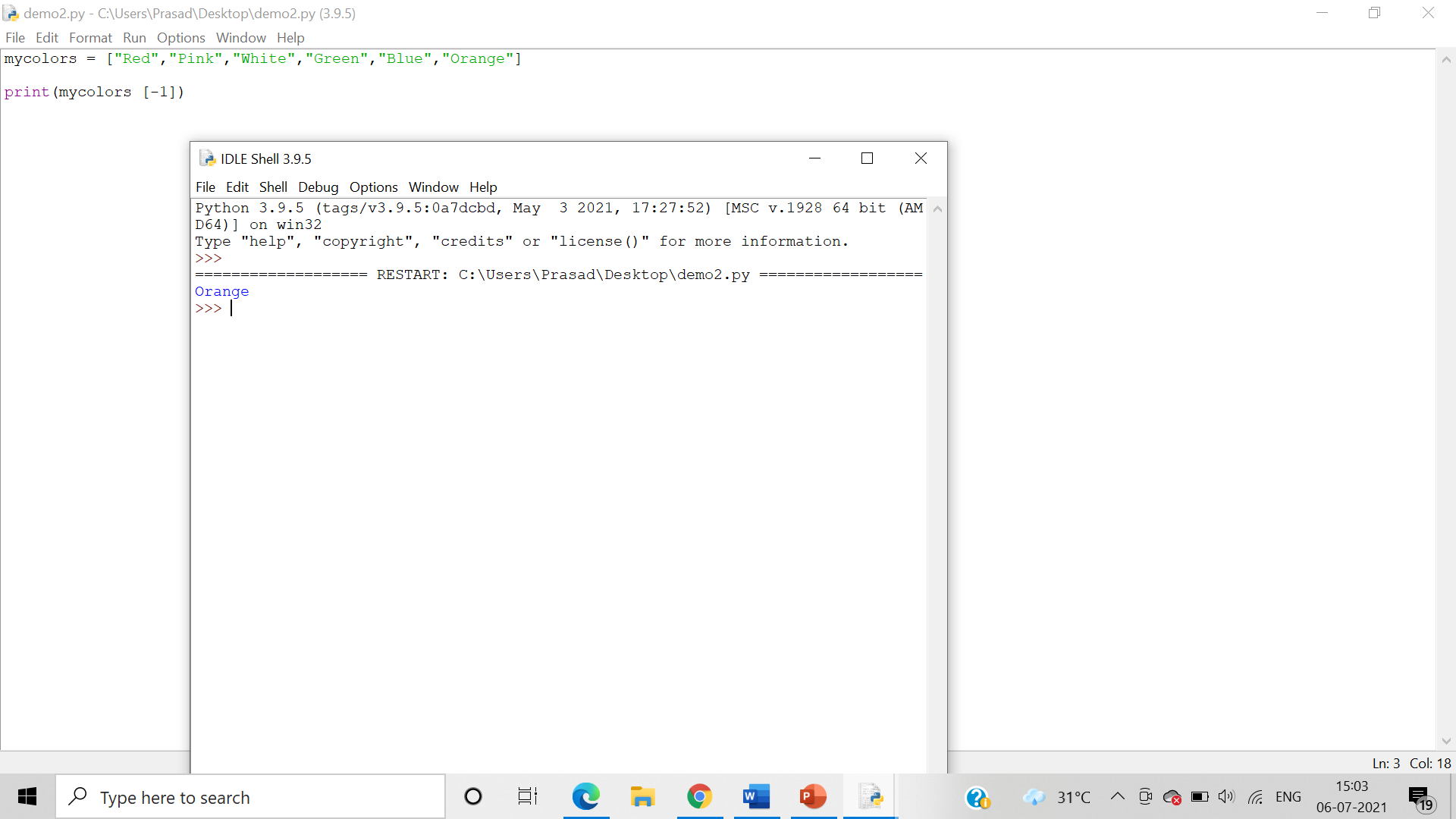
1.     Write a program demonstrating declaration, accessing- Indexing and splicing of lists and its elements.

Answer: Program demonstrating splicing: 

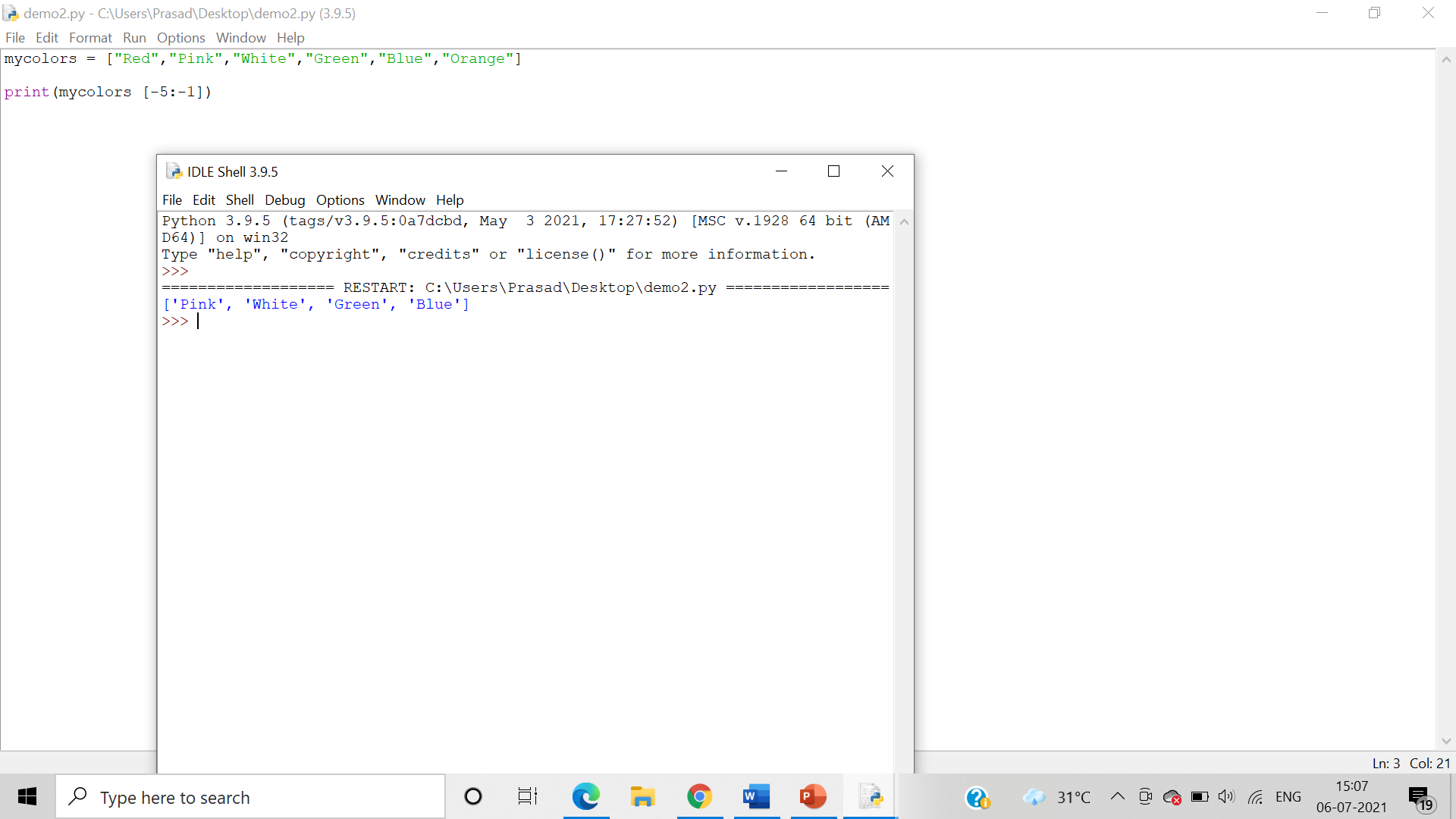




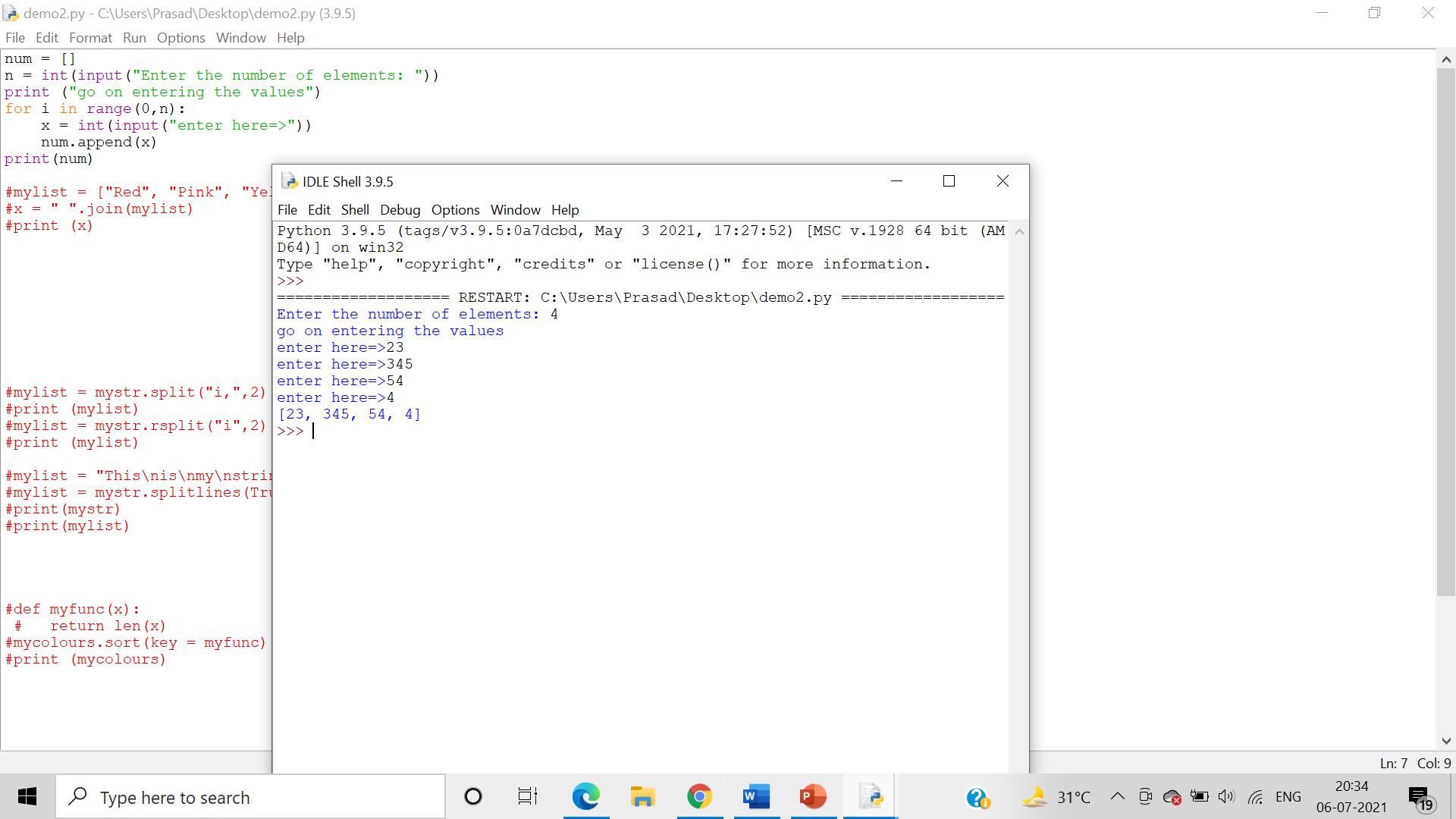
Using negative index:

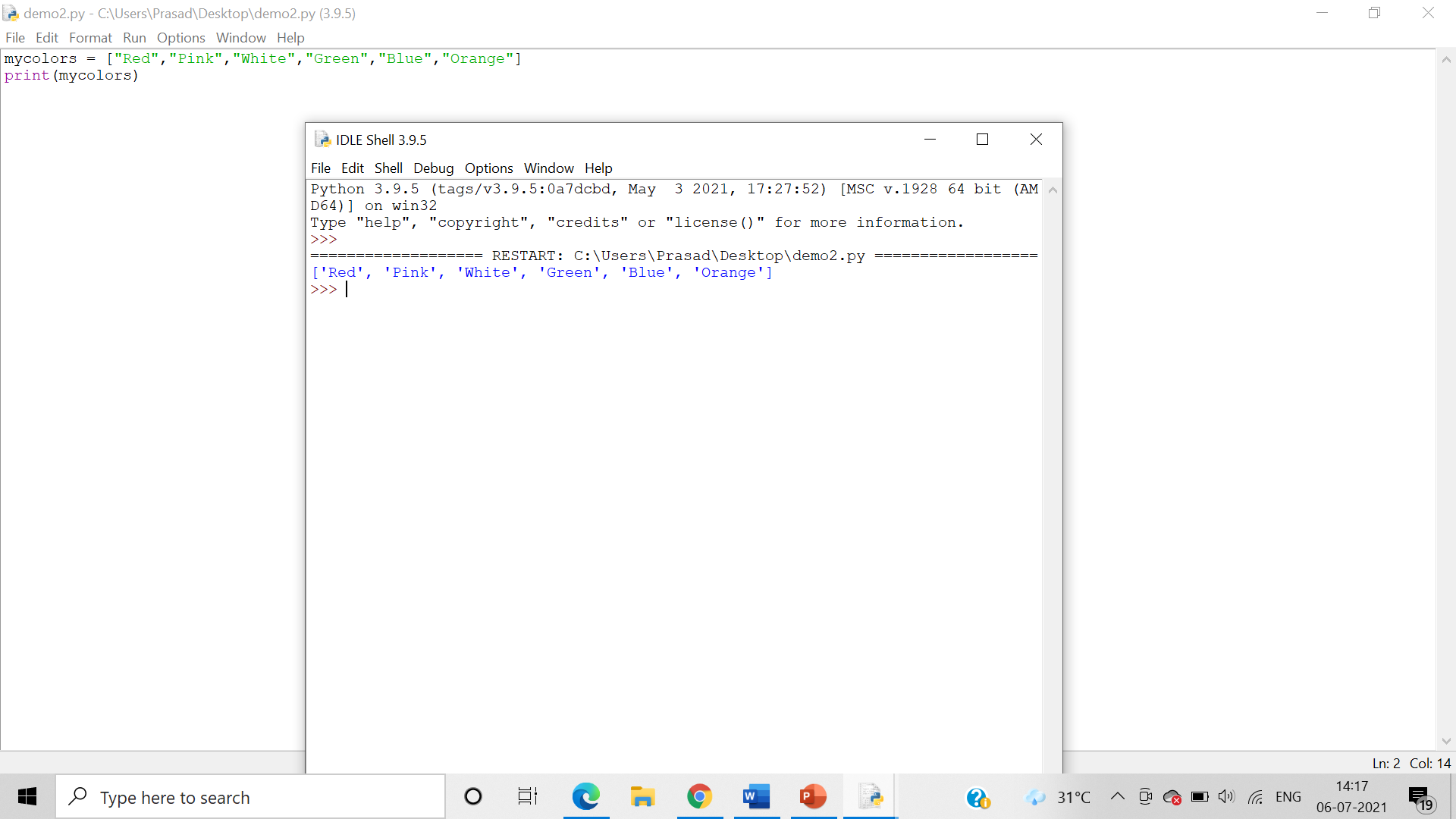


Splicing using negative index:

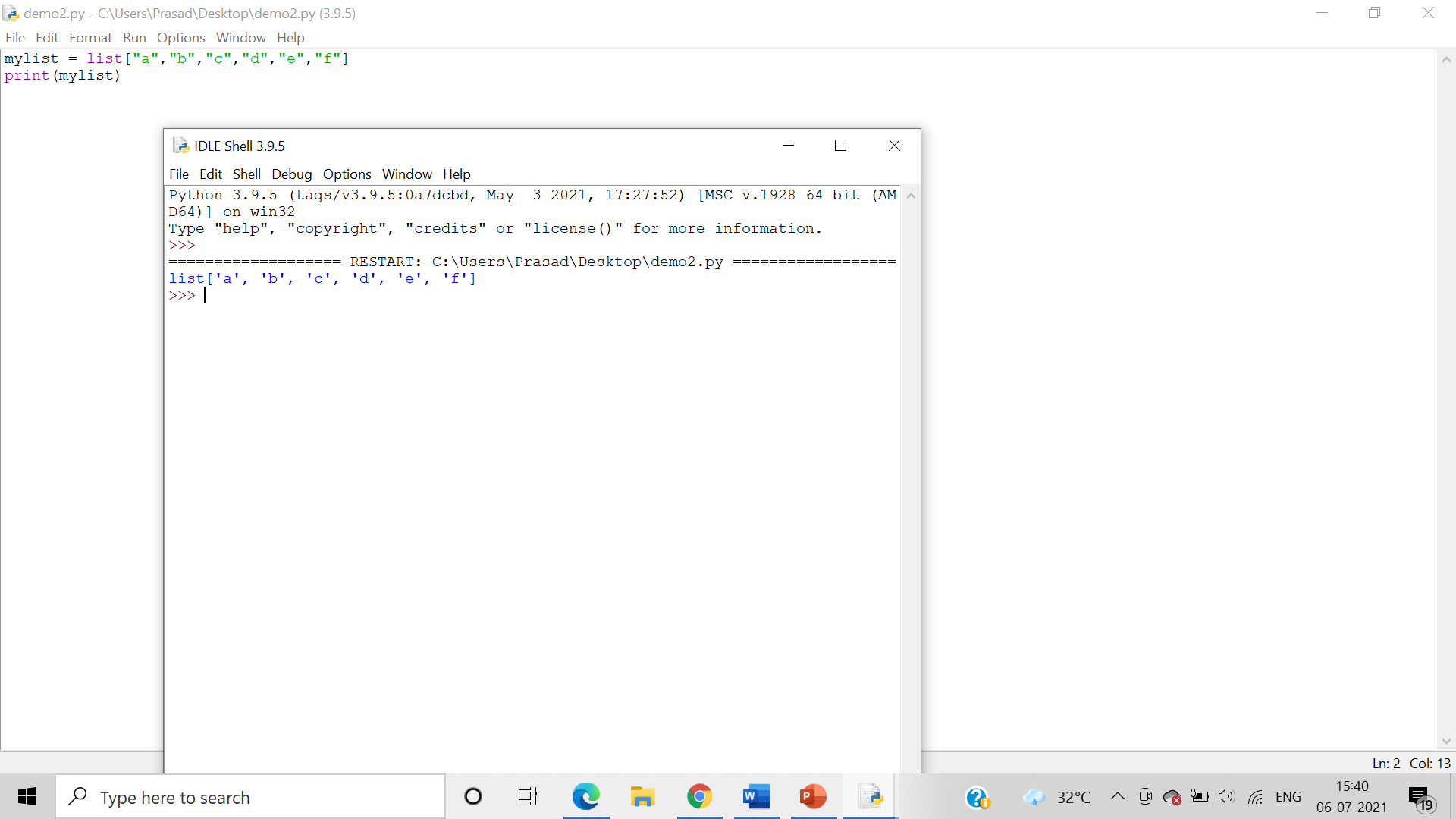


2.     Write a program demonstrating input of list elements from the user.

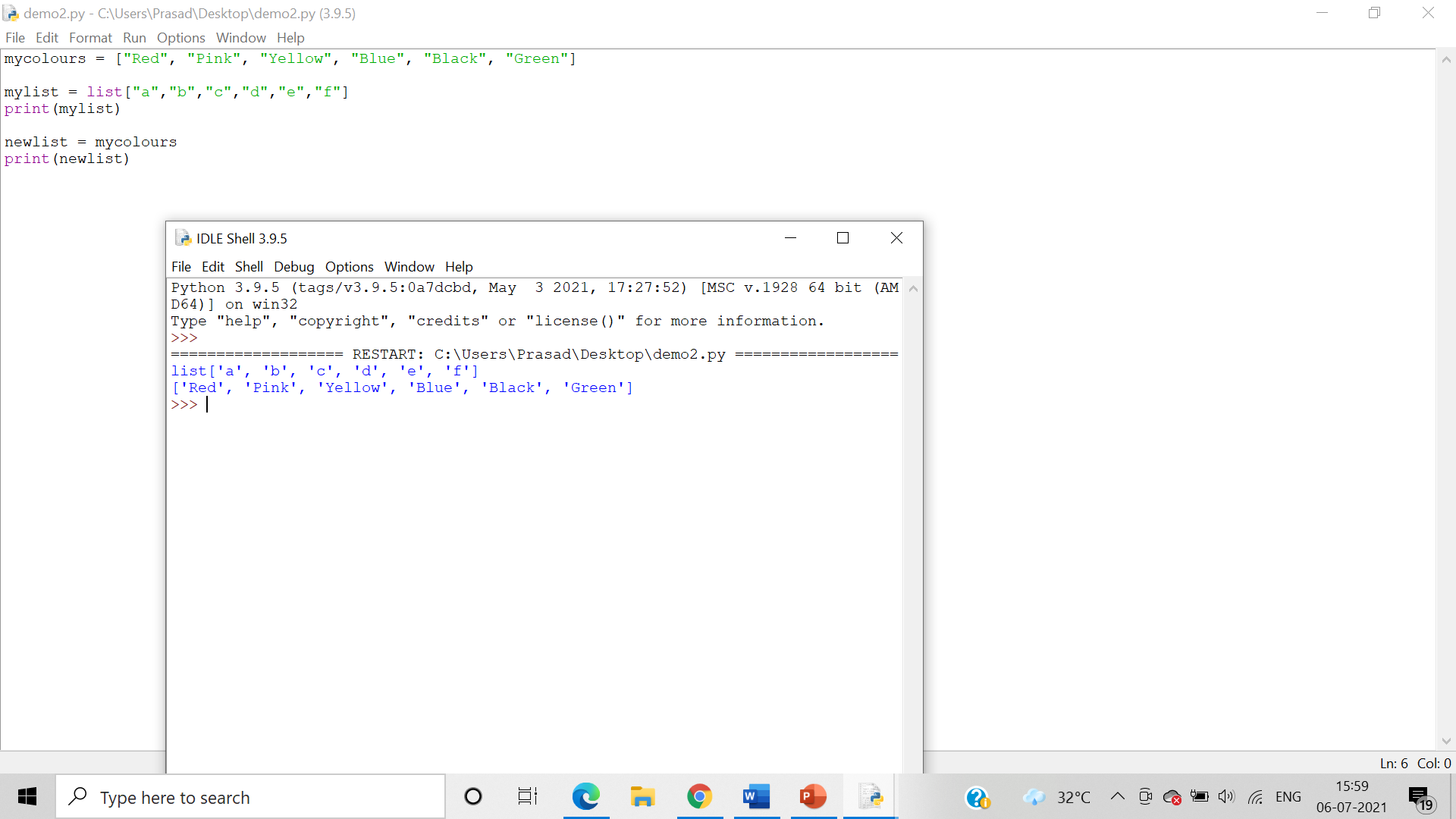




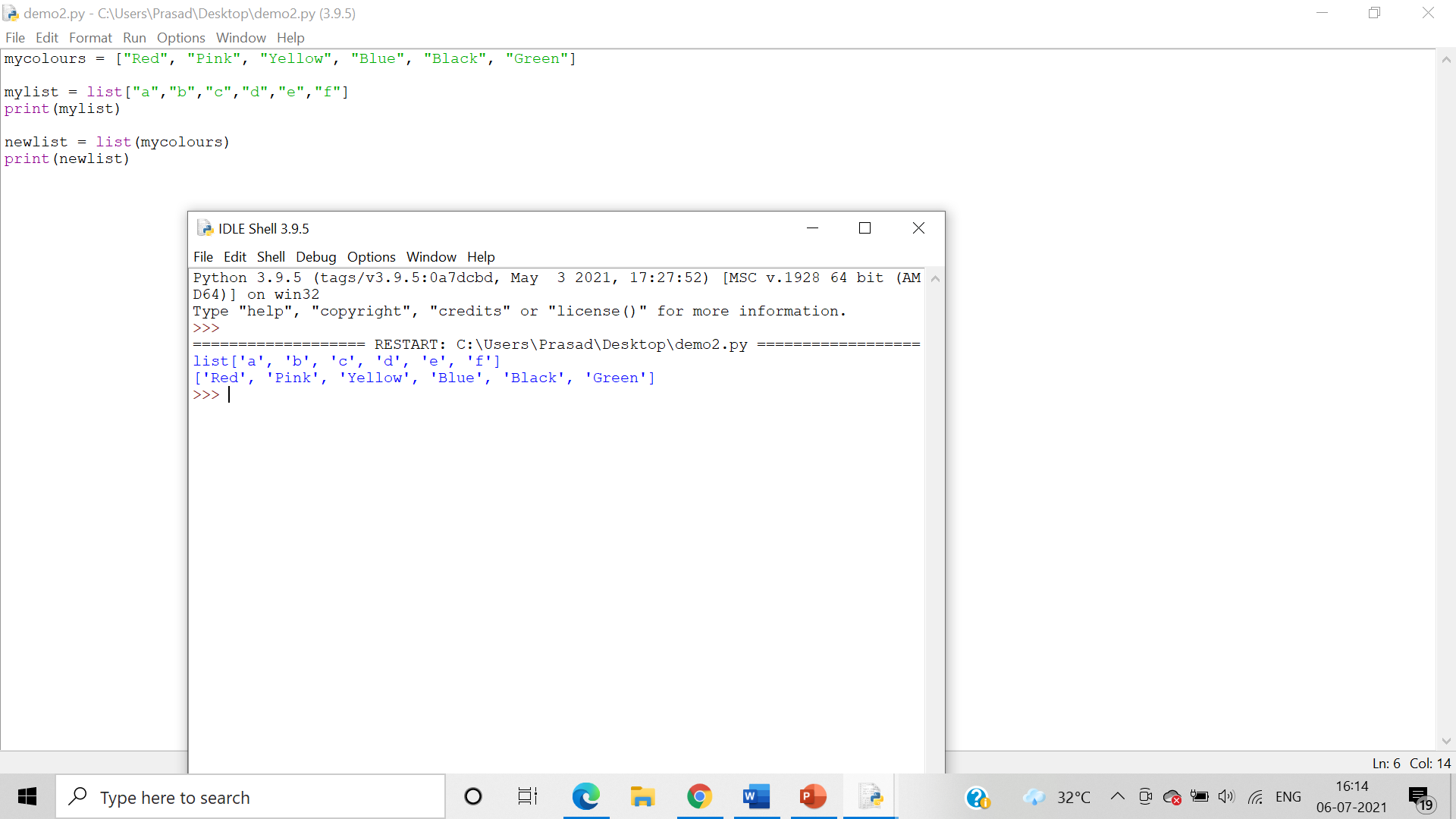
Using list constructor:



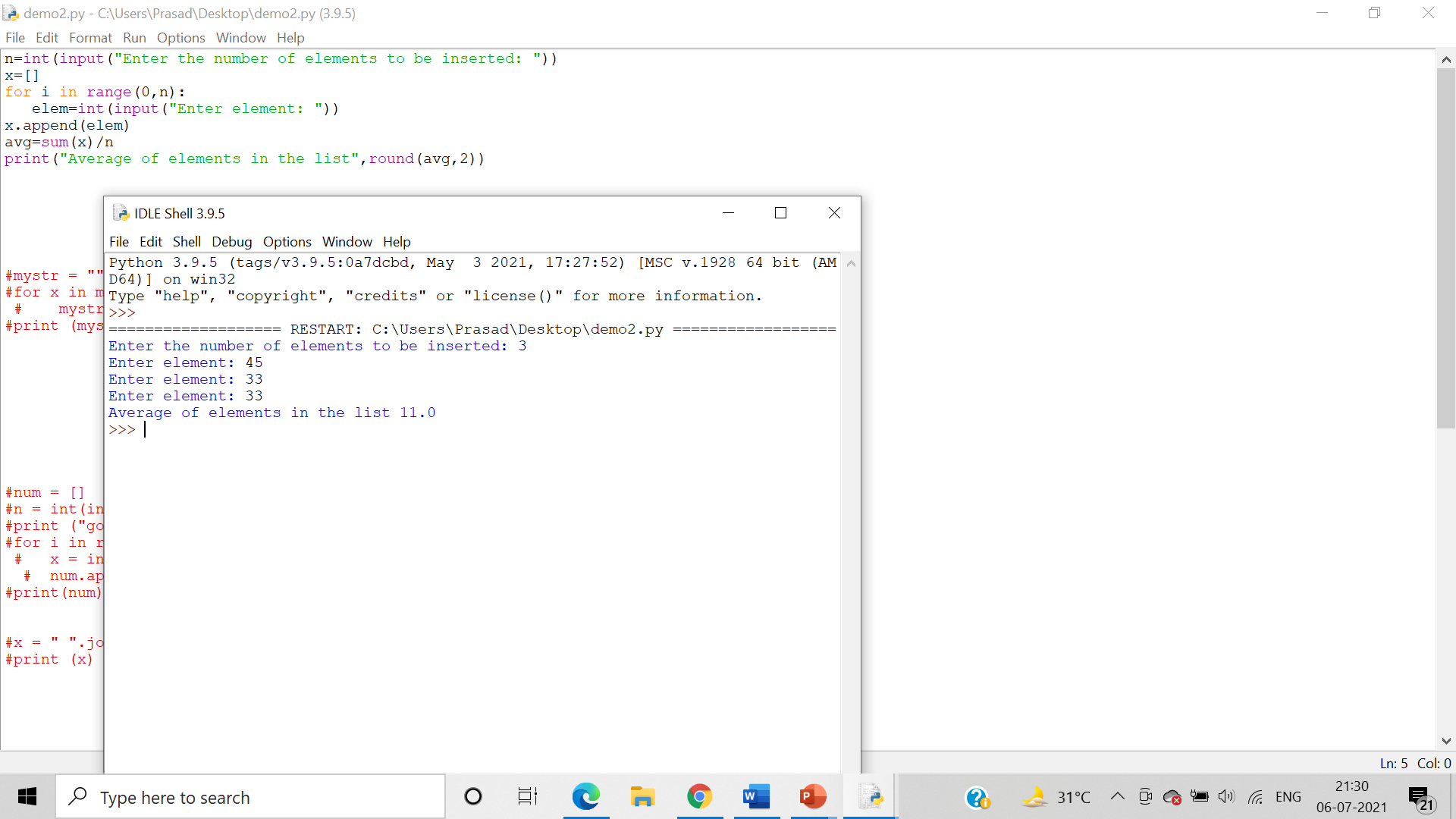
Creating copy of list:



Creating copy of list using list constructor:

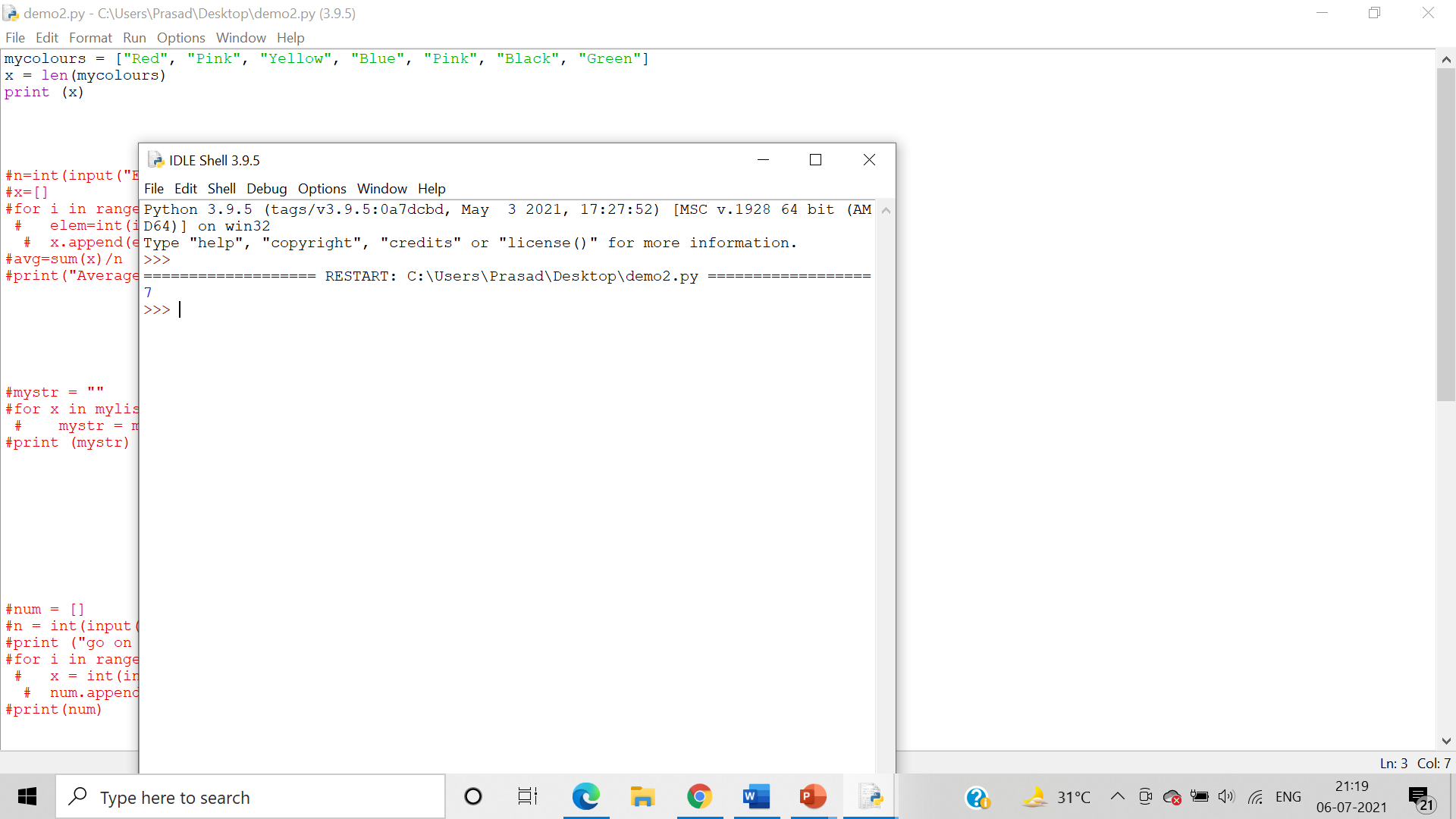


3.     Write a program demonstrating printing of list elements using for in and range() function

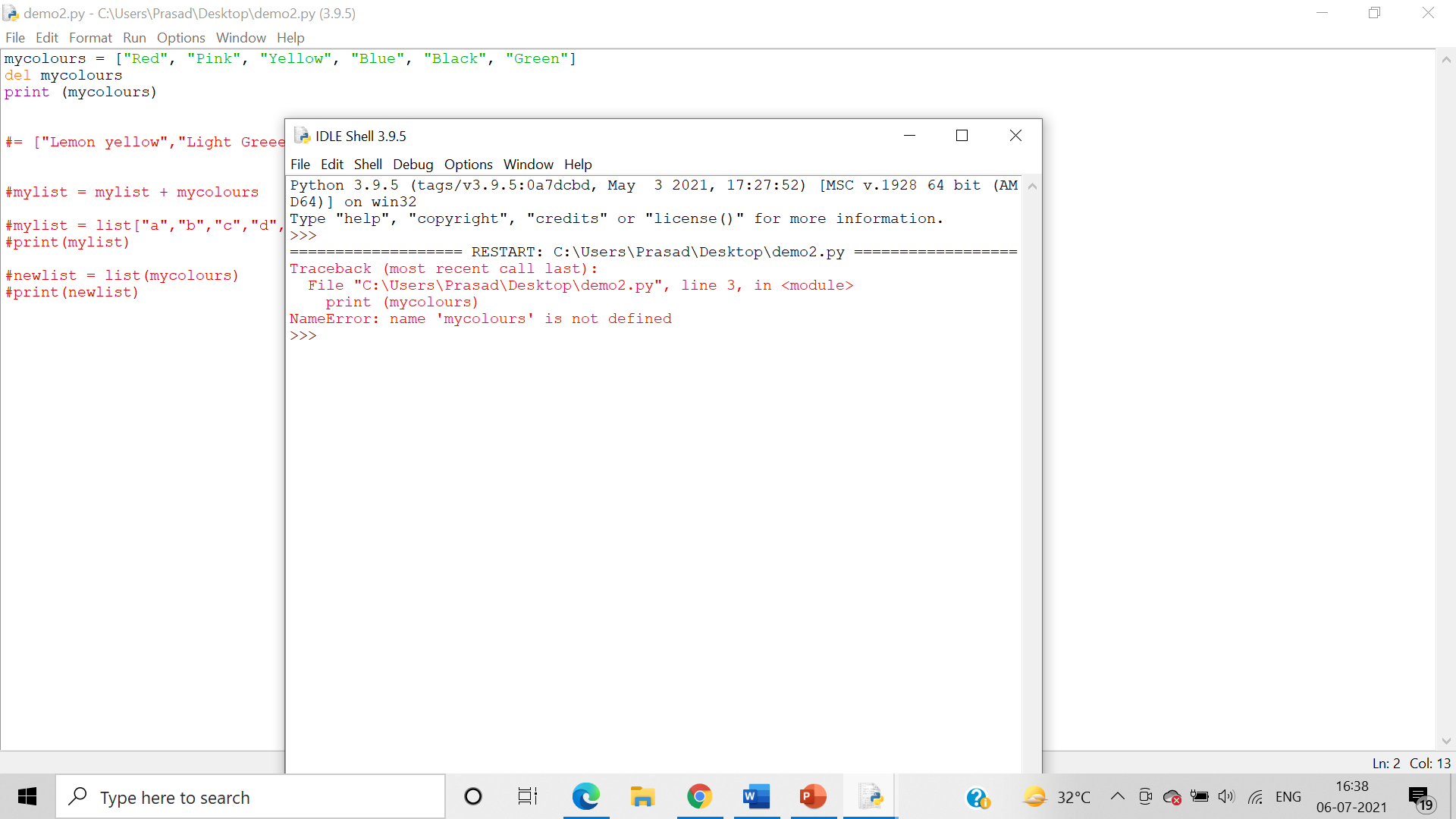


4.     Write a program demonstrating len() and del() function.

len()



del()

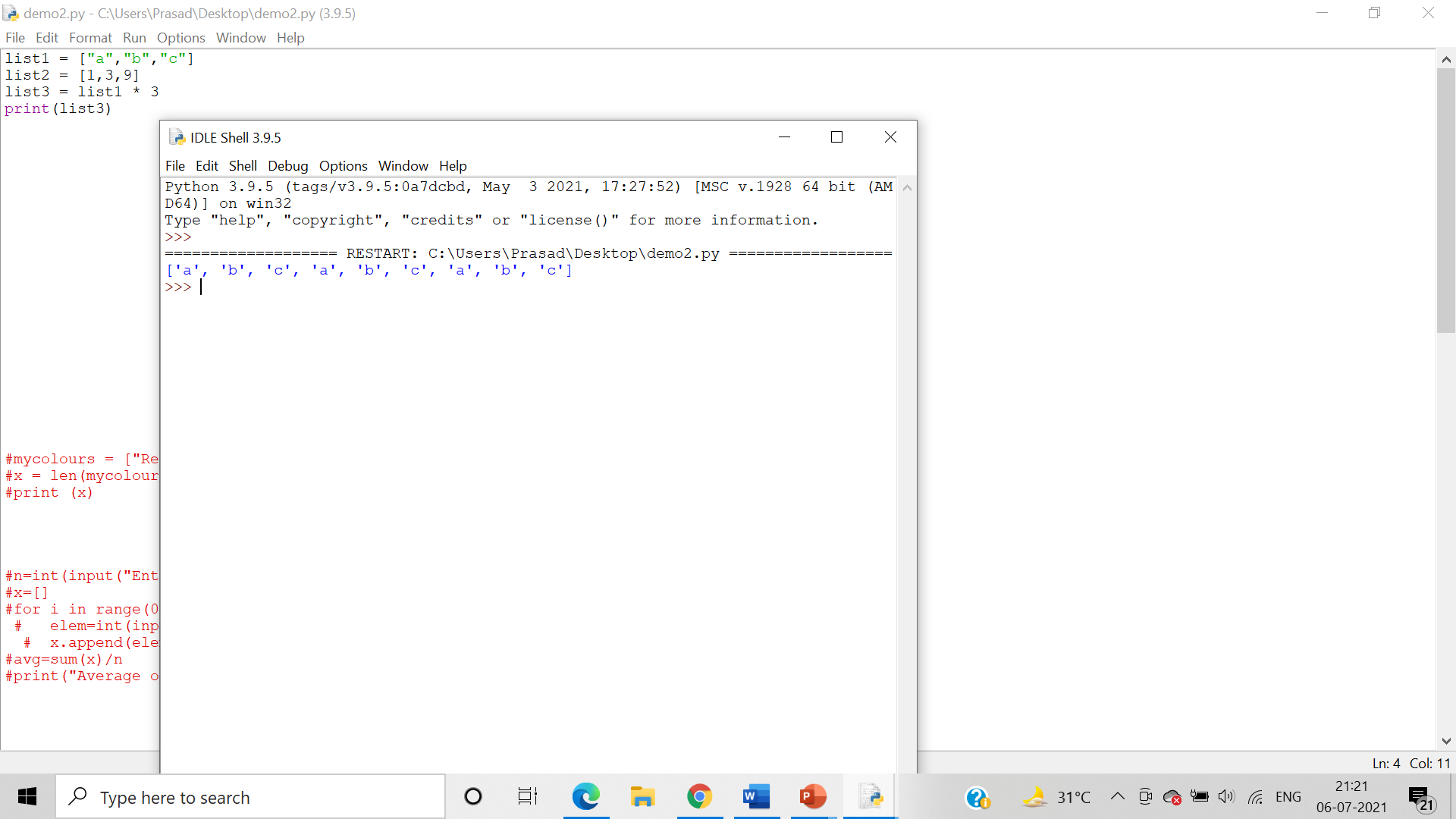


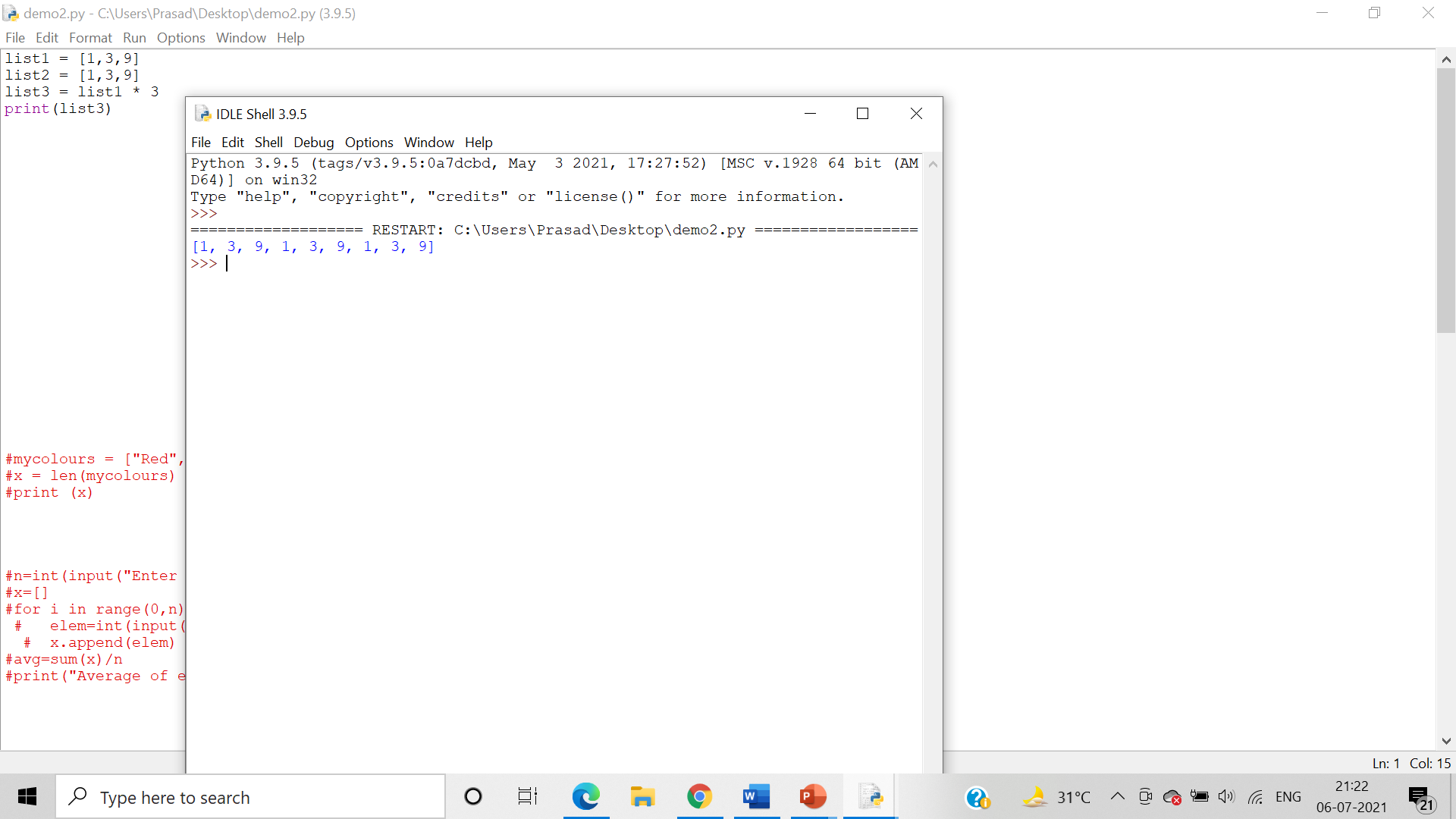
5.     Write a program demonstrating usage of ‘+’ and ‘\*’ operators on lists

Answer: Program demonstrating usage of ‘+’ operator:



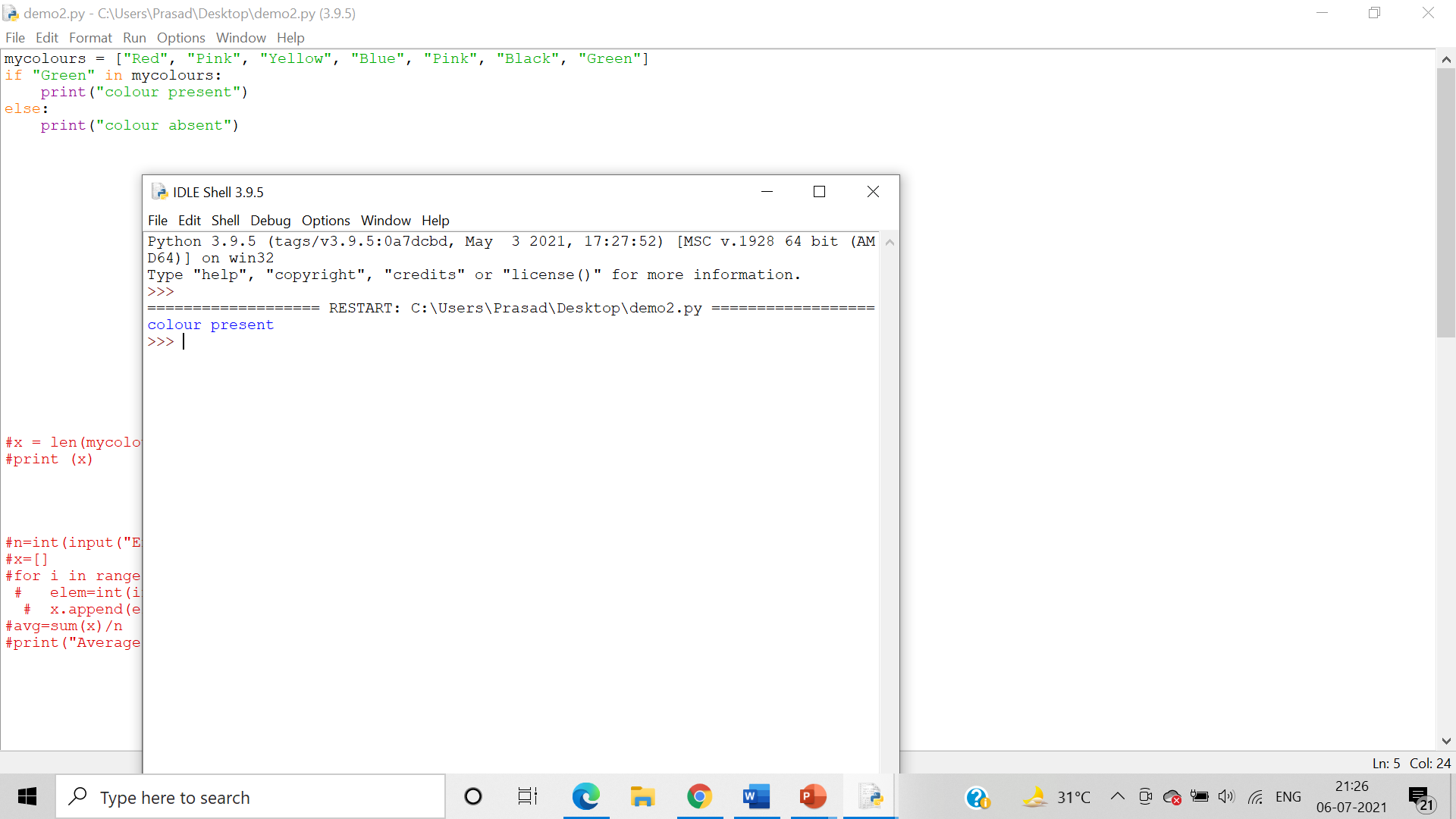
Program demonstrating usage of ‘\*’ operator:

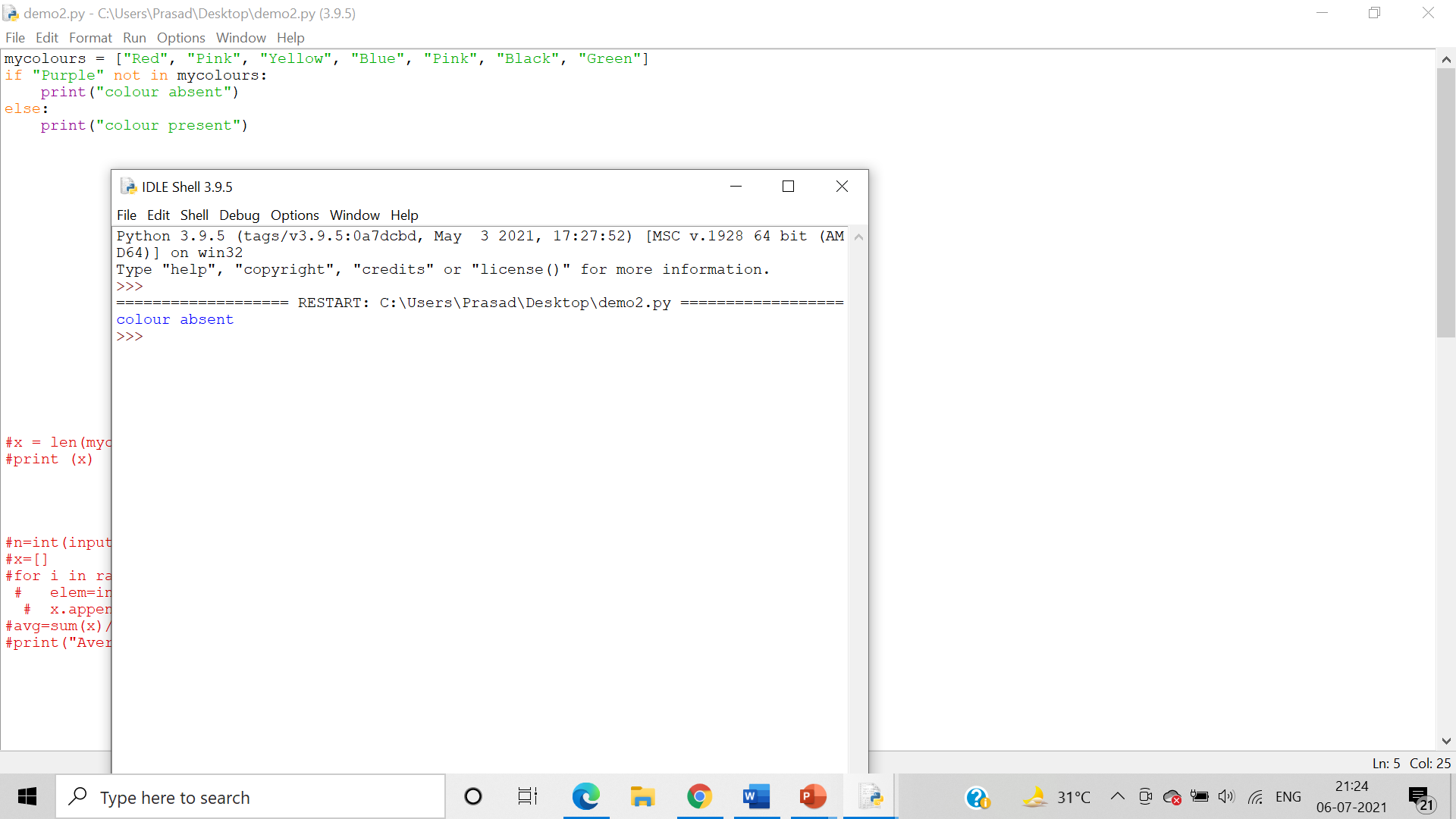




6.     Write a program demonstrating “in” and “not in” keywords on lists

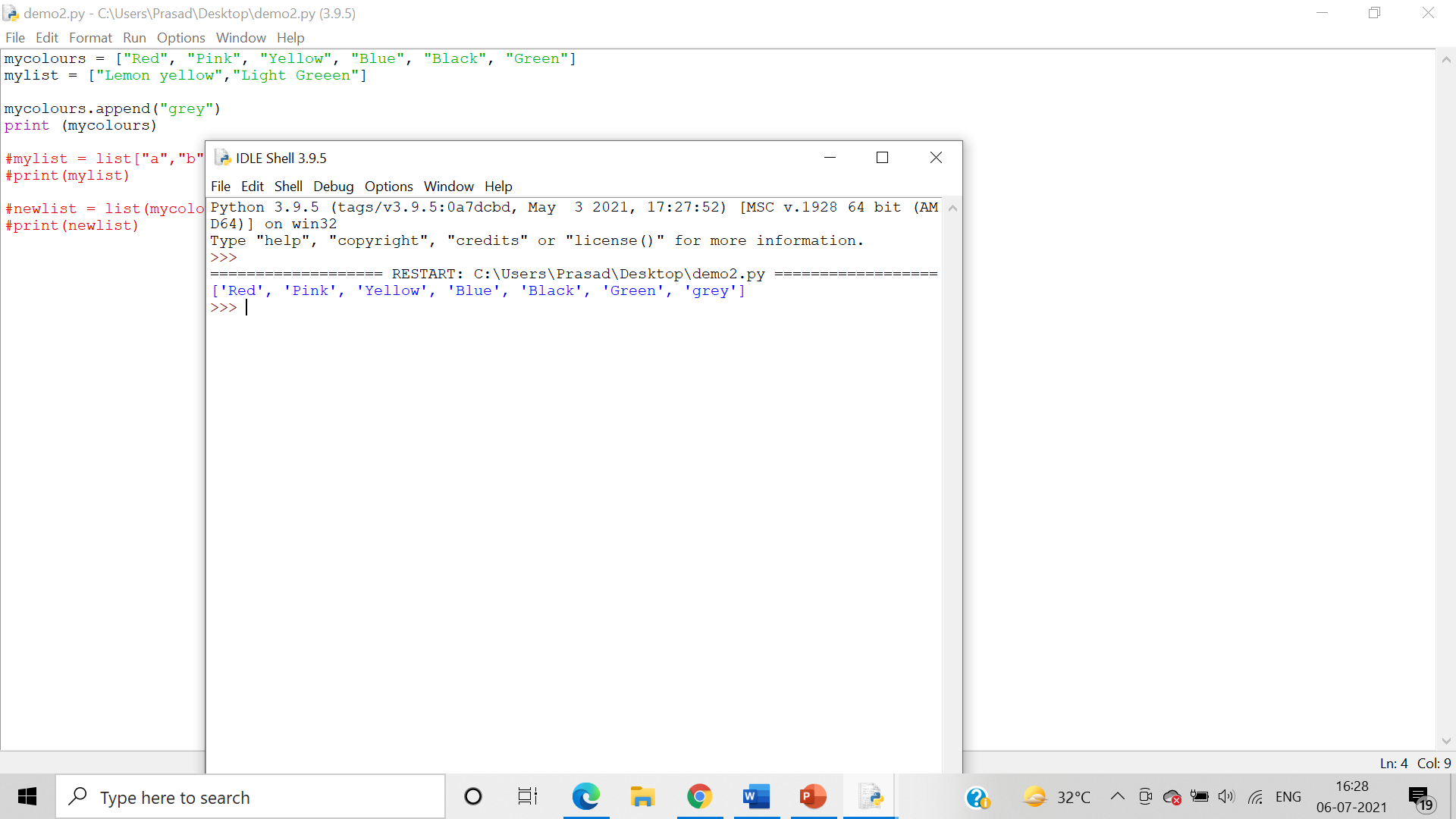
Answer: Program demonstrating “in” keyword:

Program demonstrating “not in” keyword:

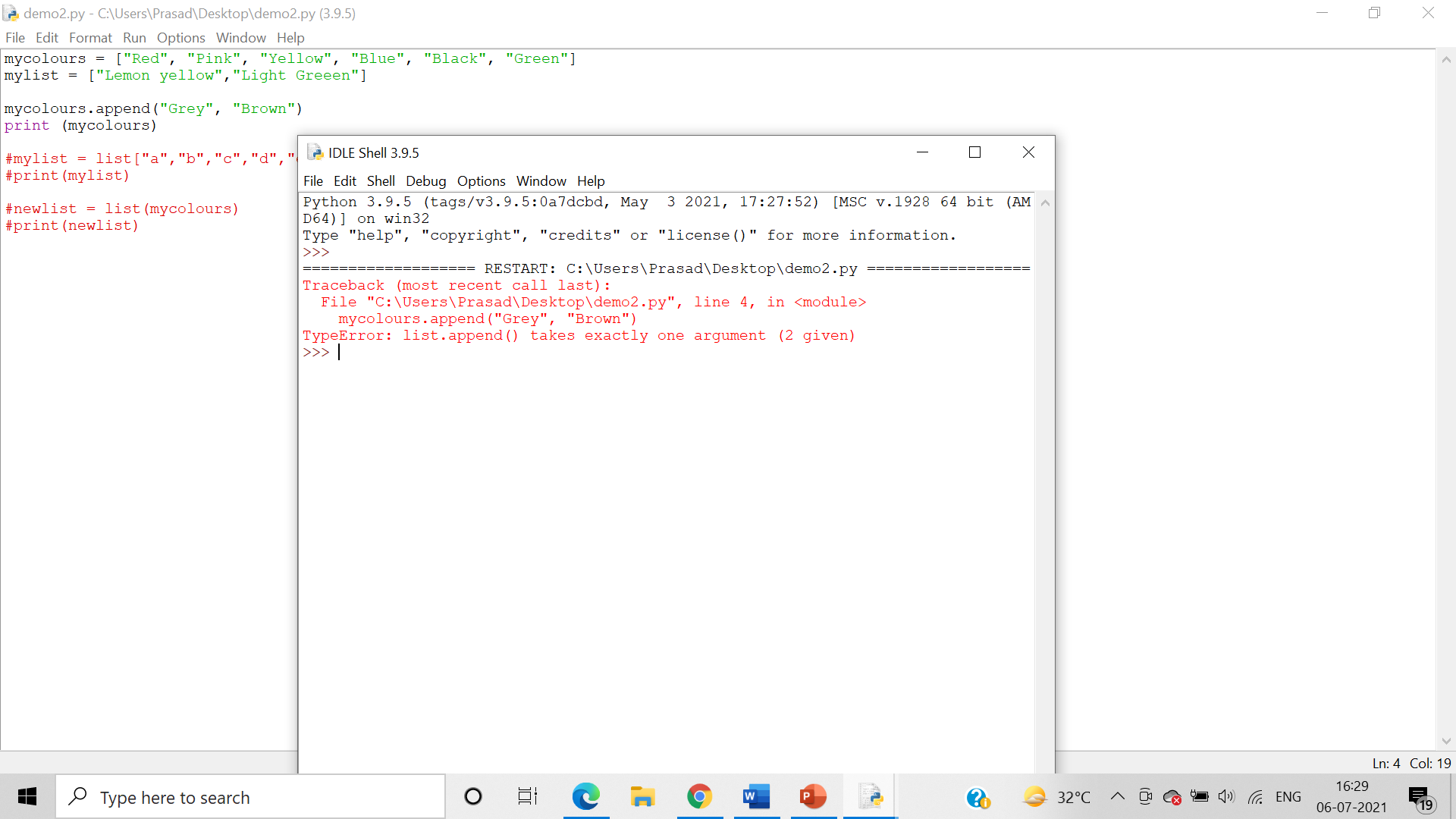


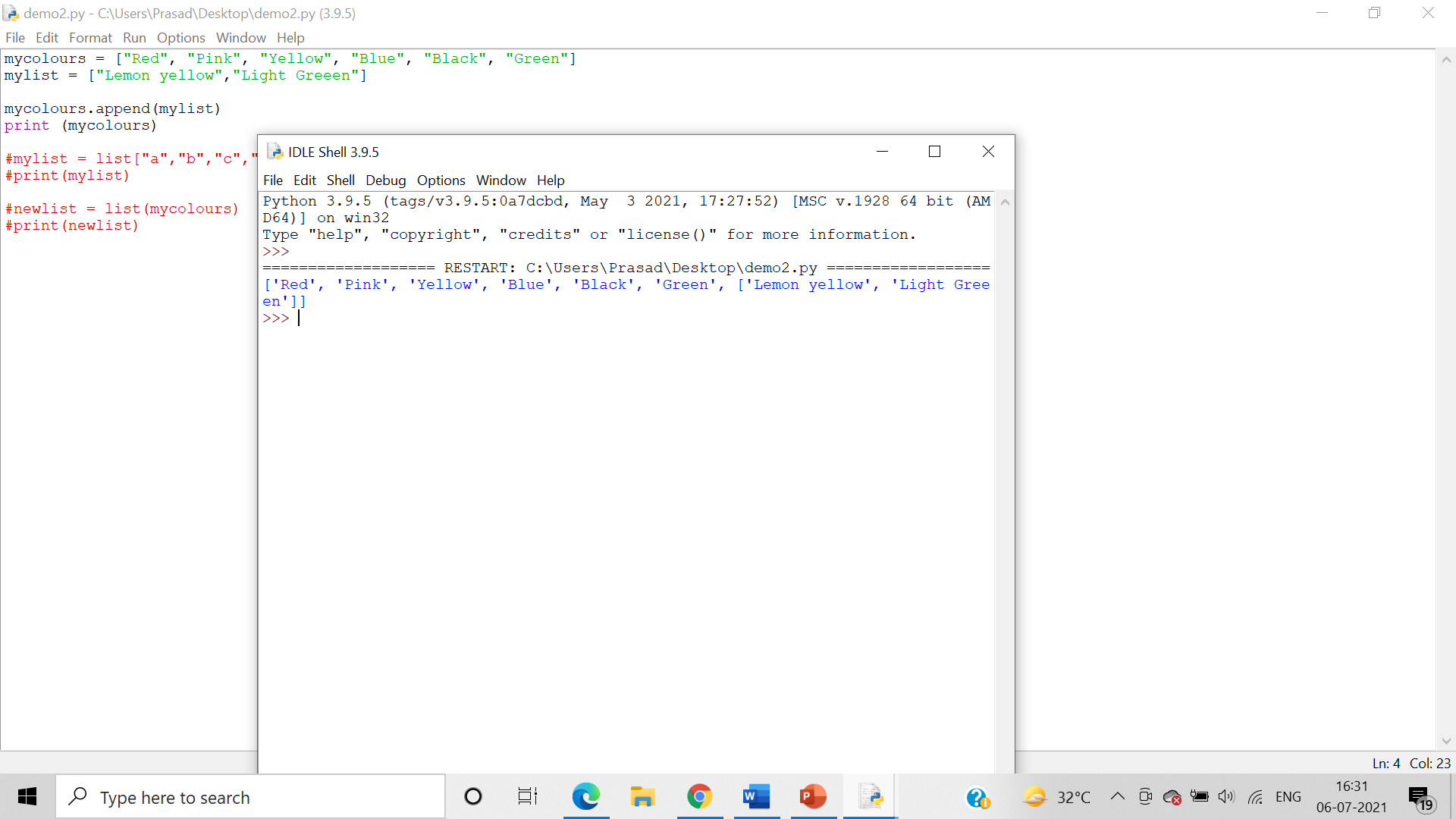
7.     Write set of programs for demonstrating the usage of all the different Lists methods along with their variations

* Append()

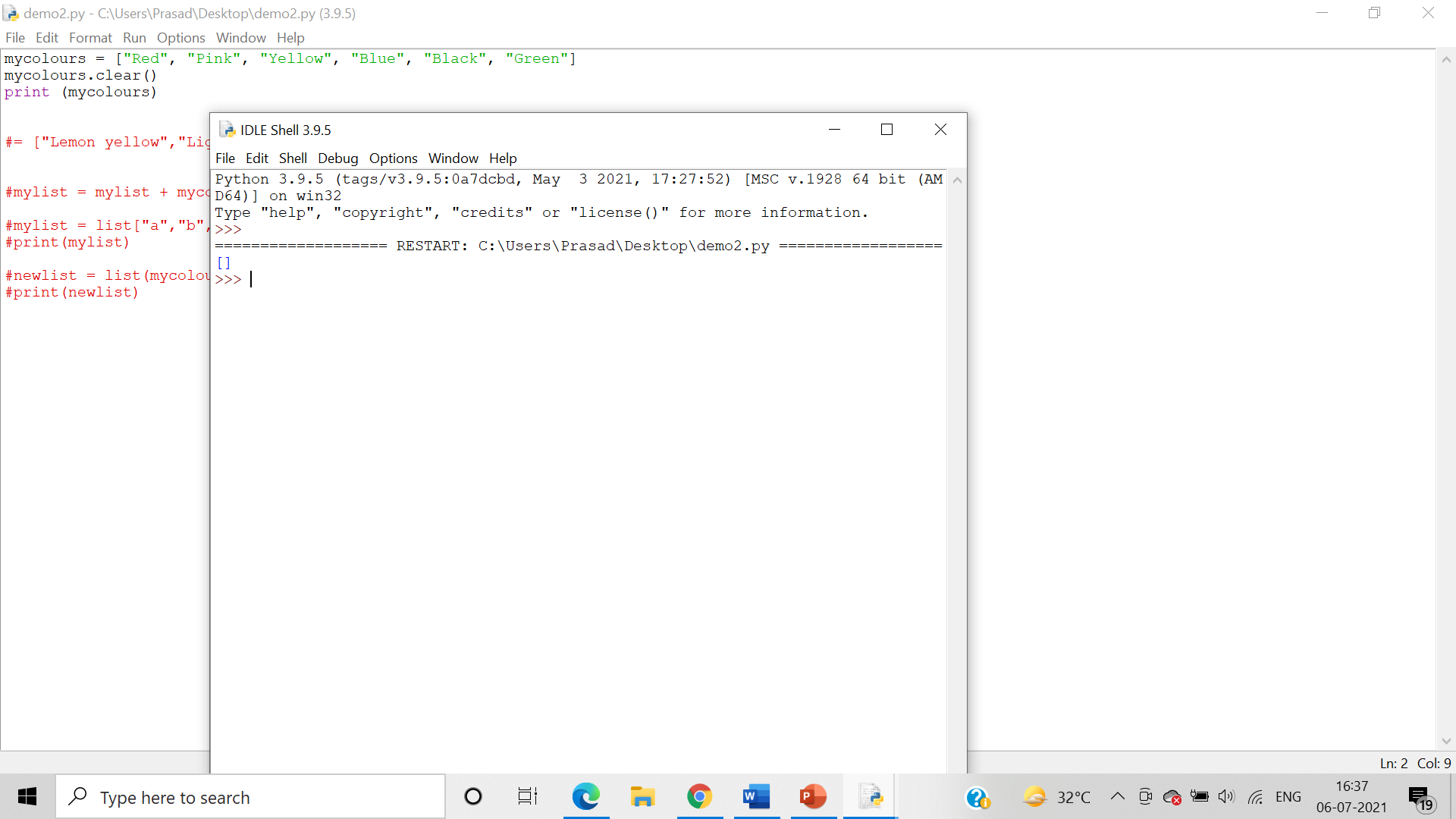


Adding 2 elements:

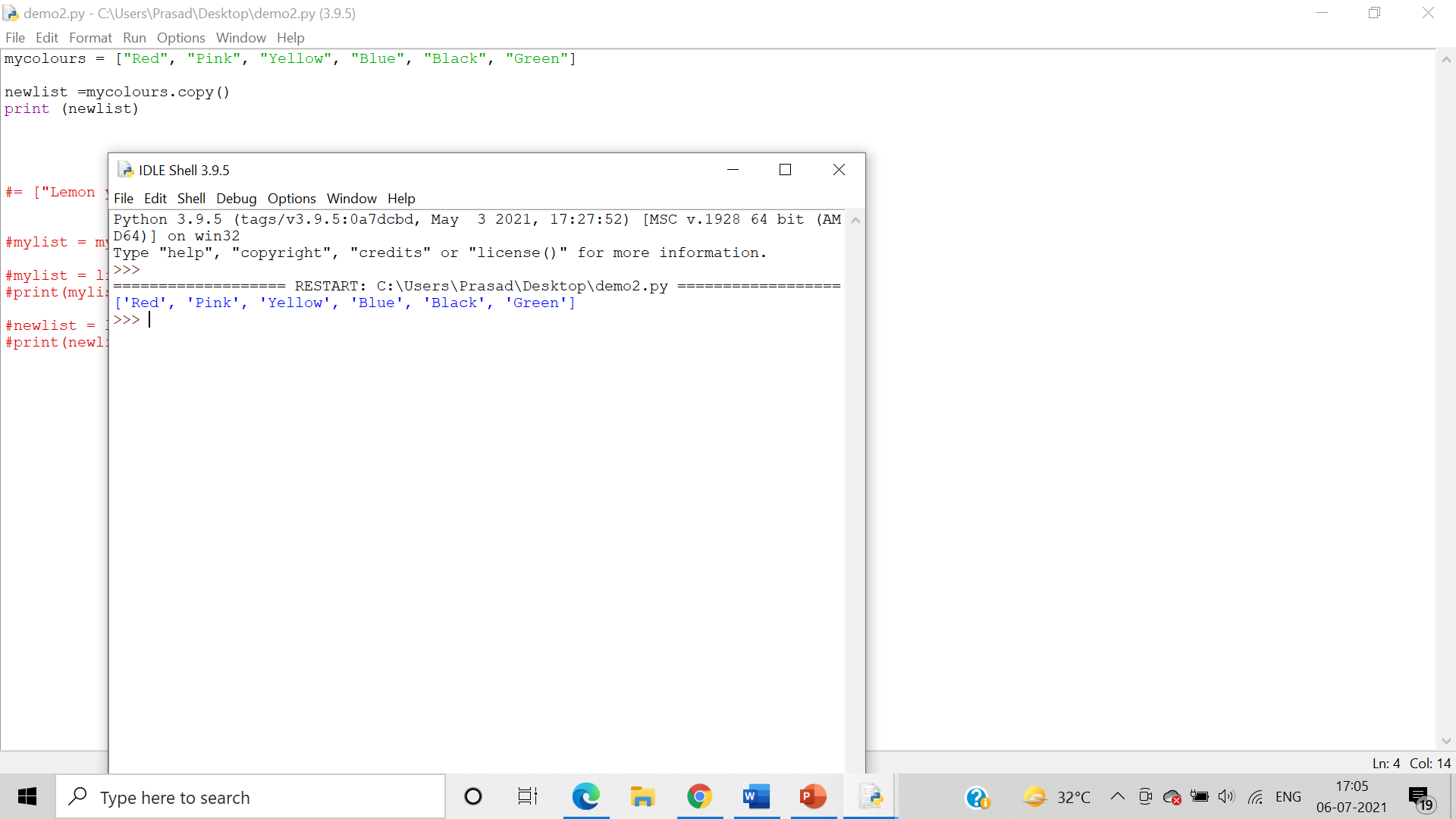




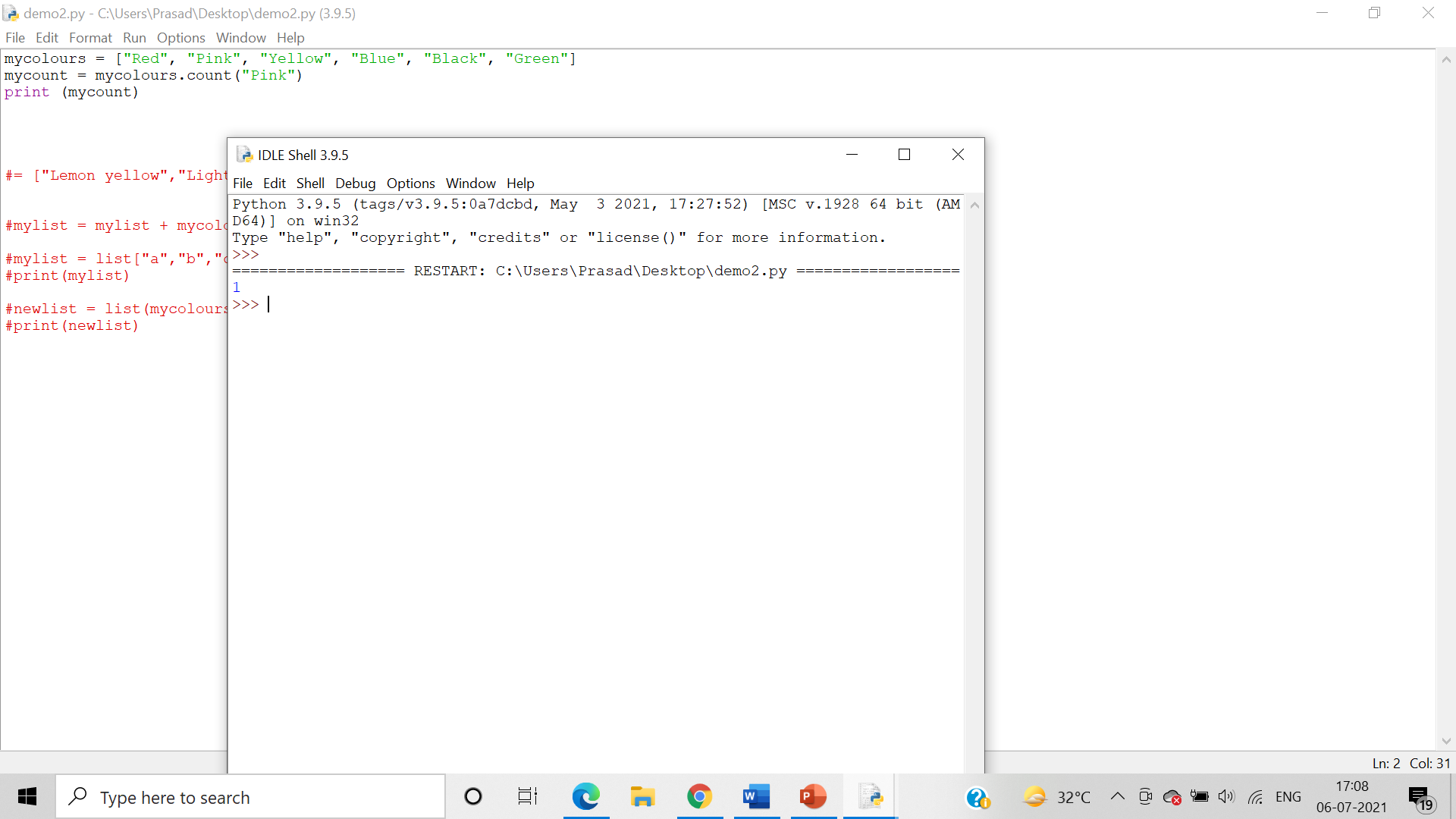
* Clear()

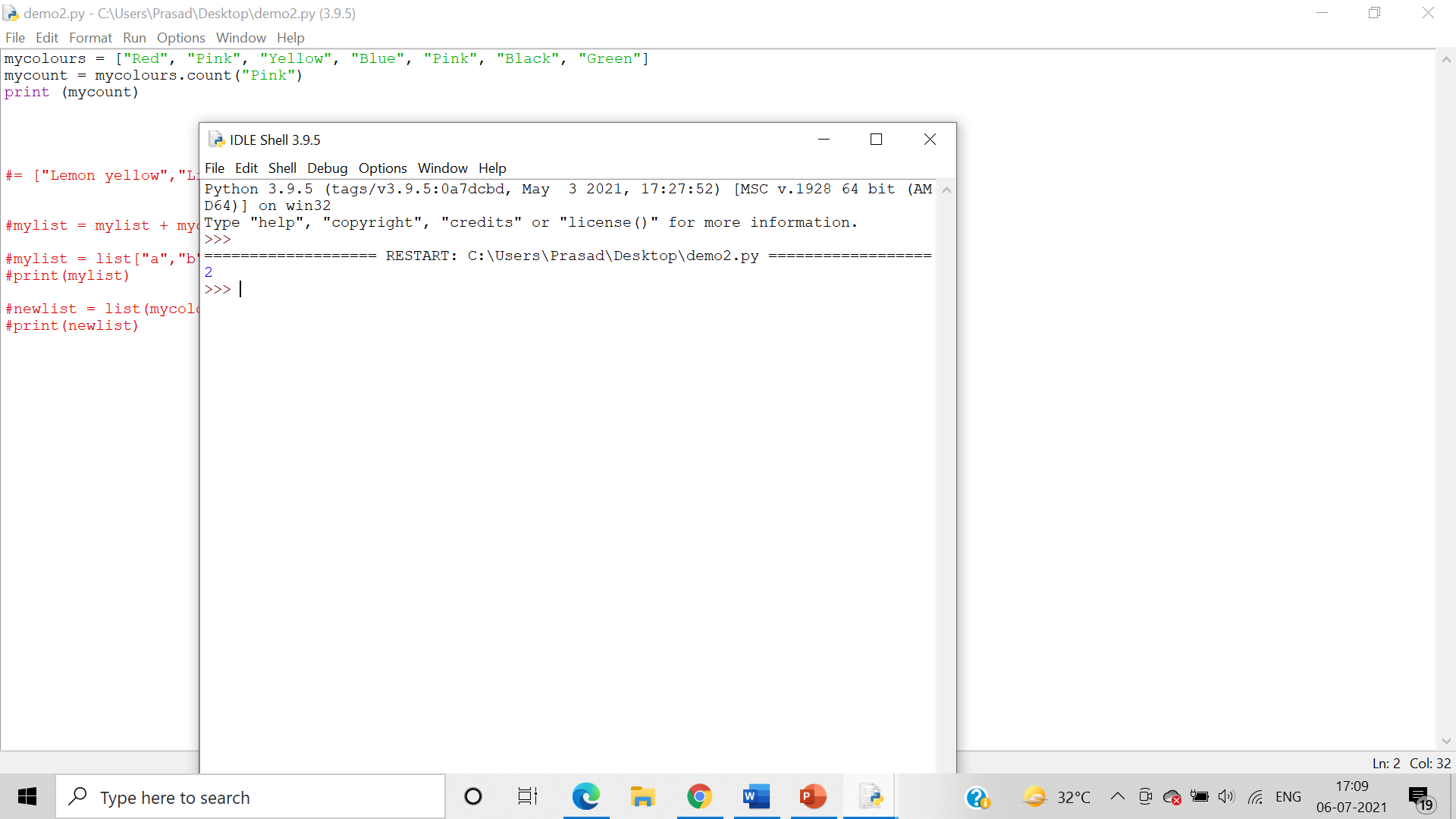


* Copy()

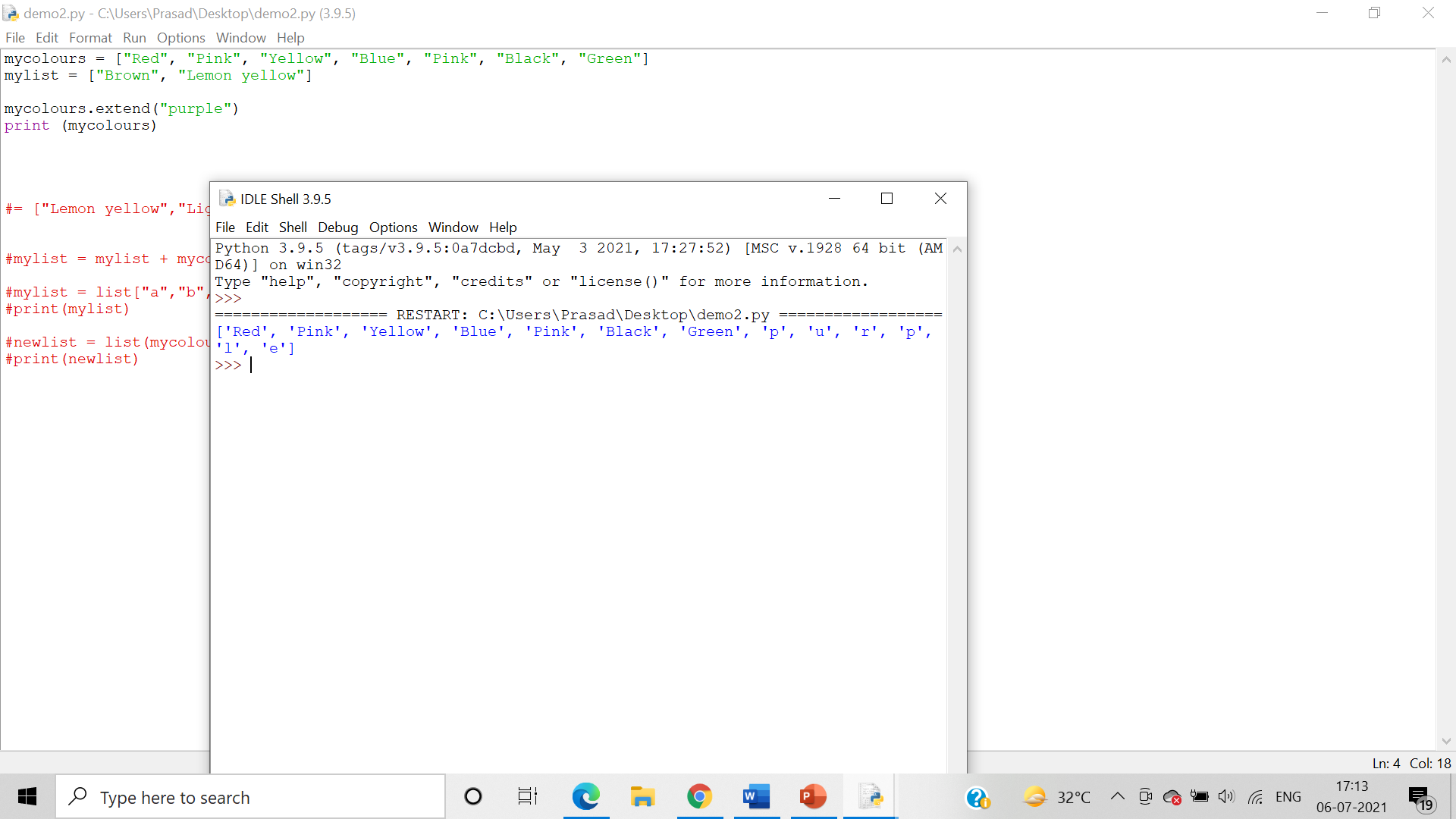


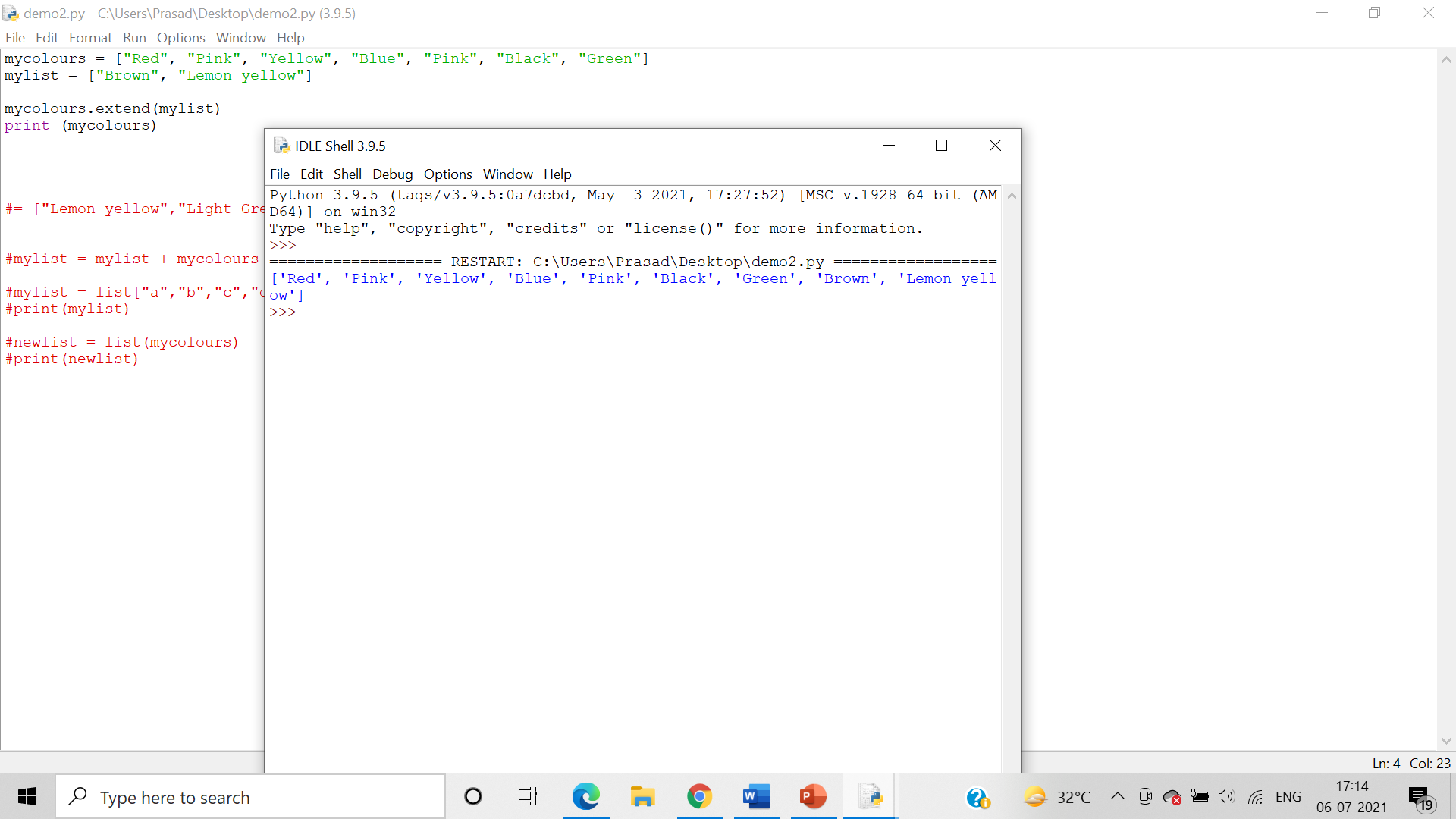
* Count()



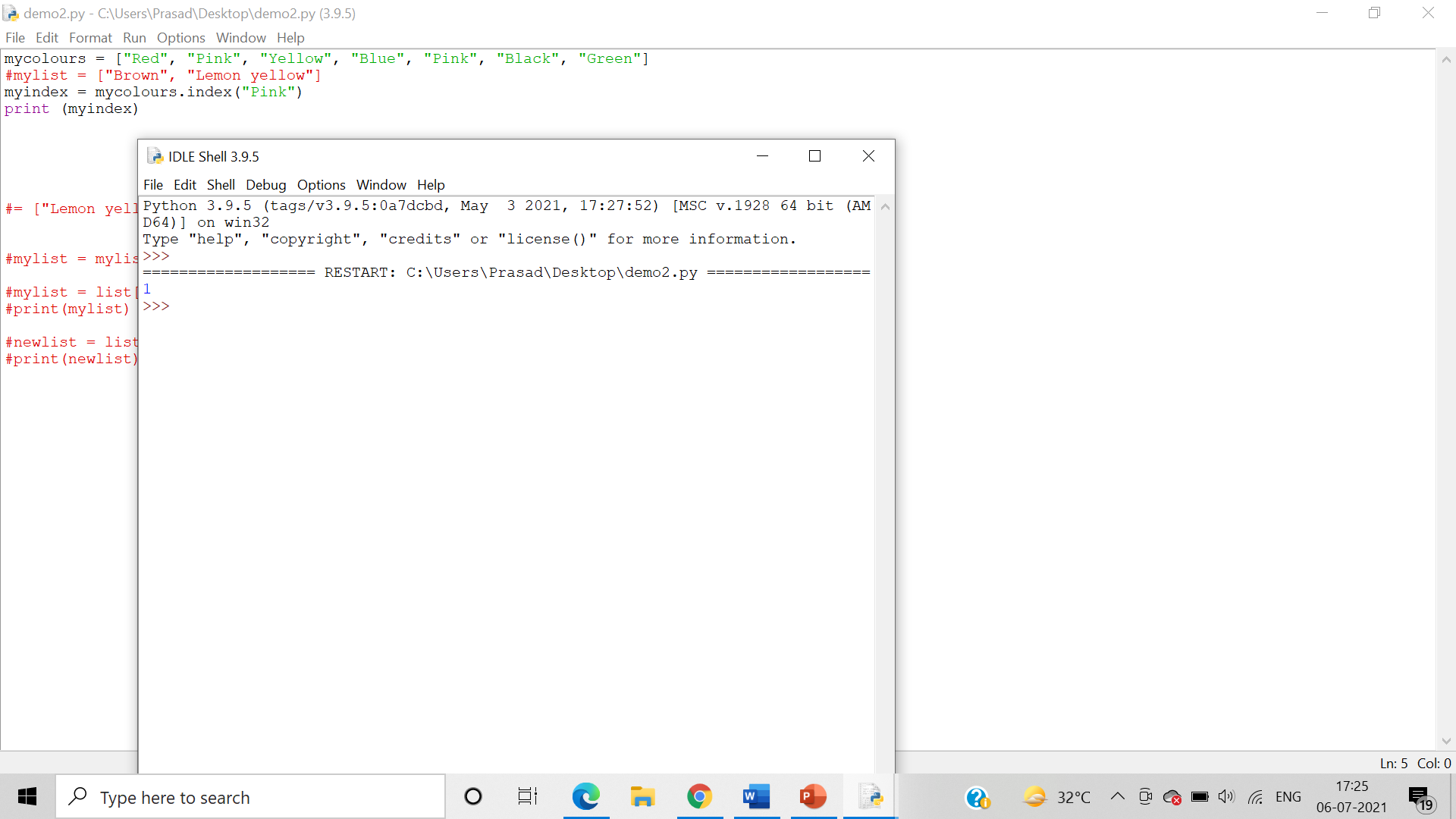


* Extend()

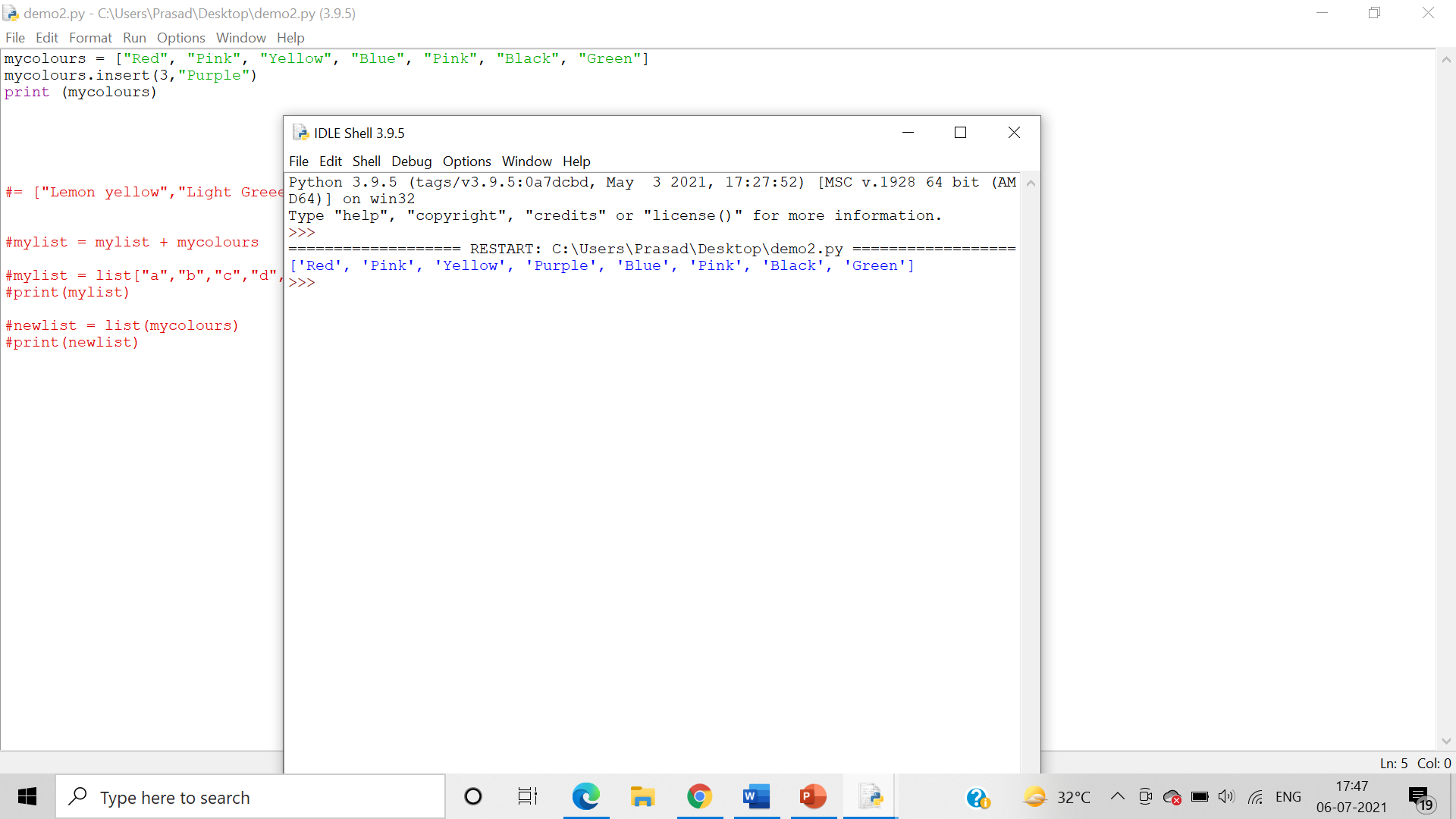




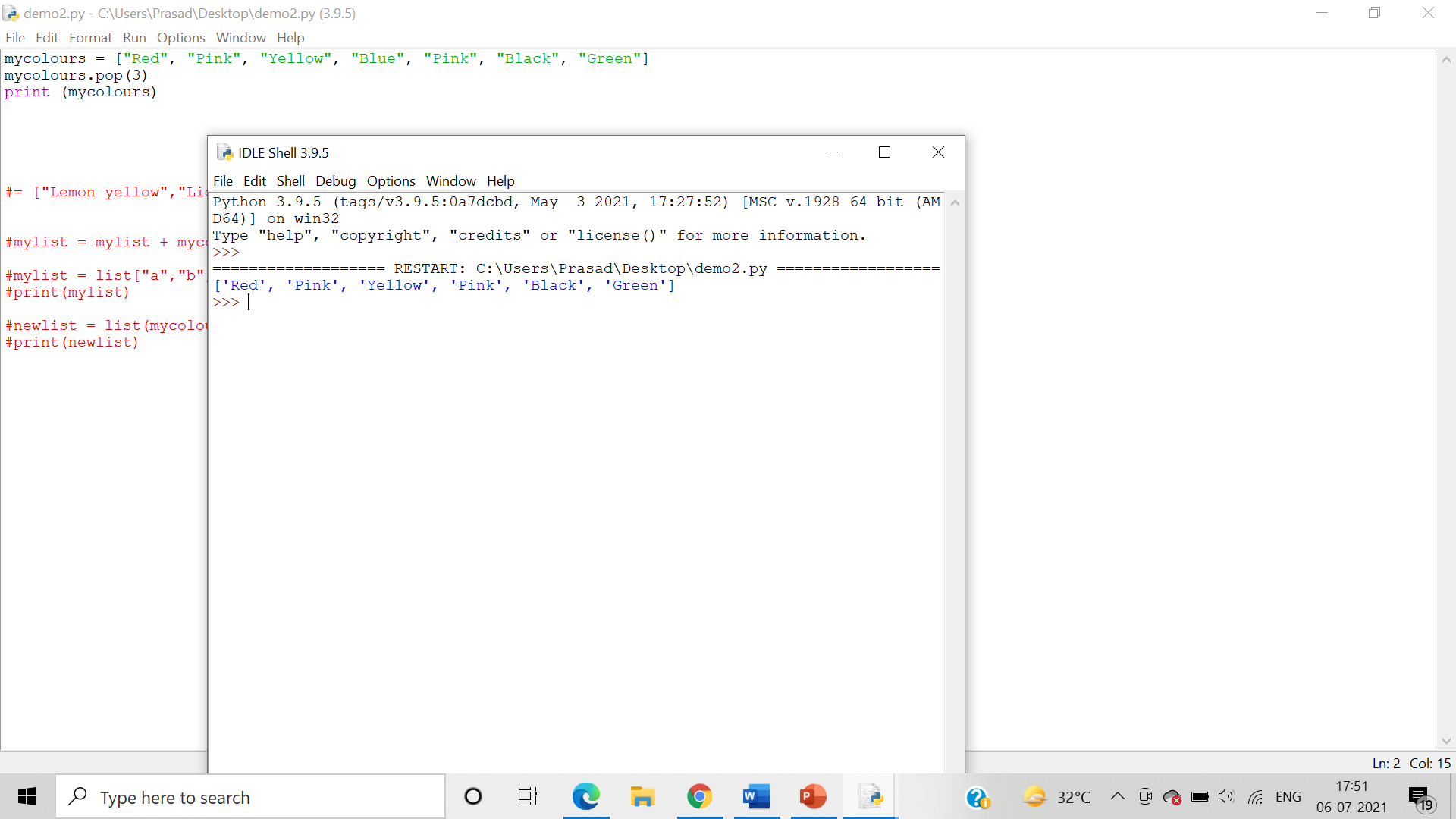
* Index()



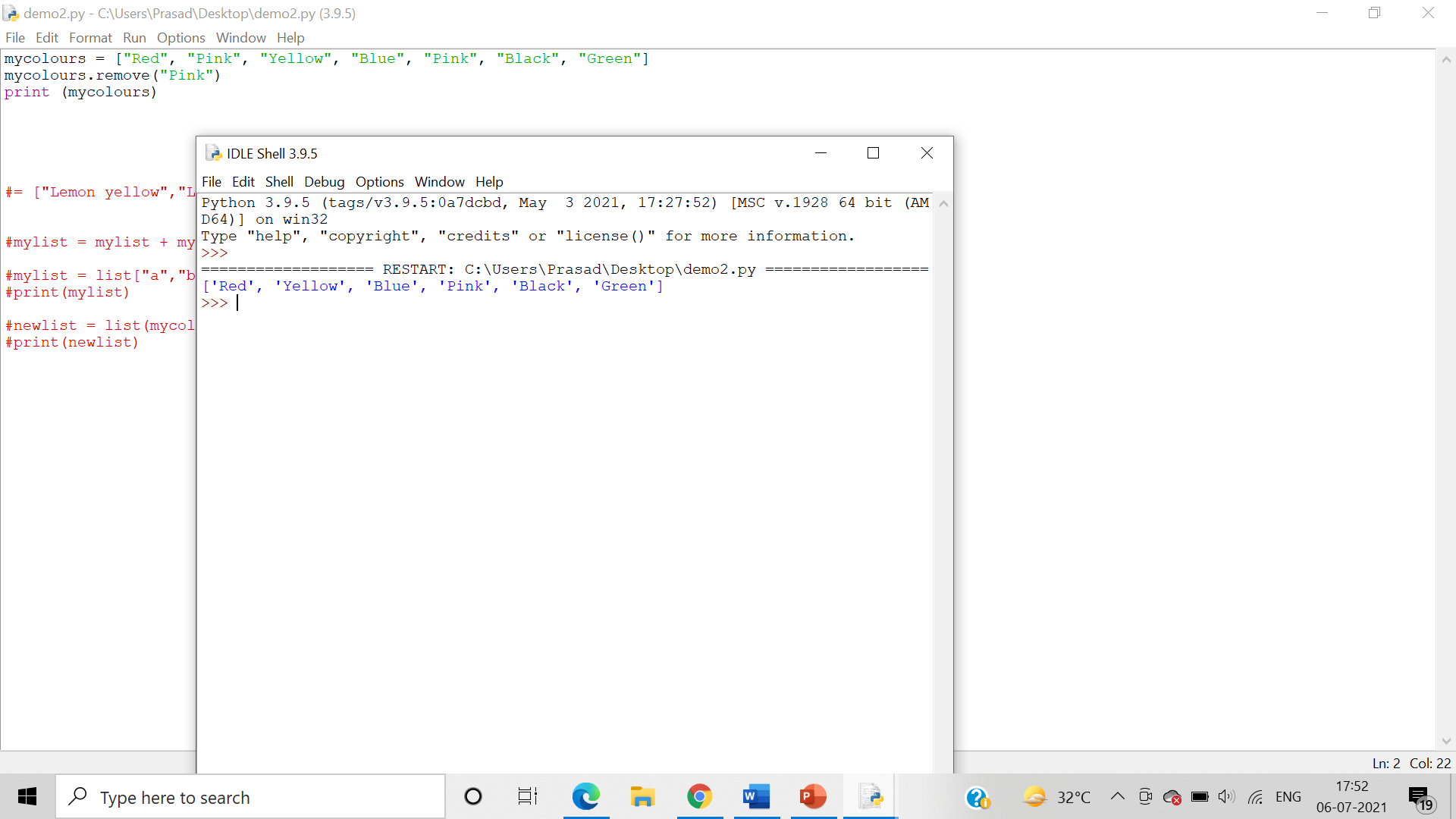
* Insert()



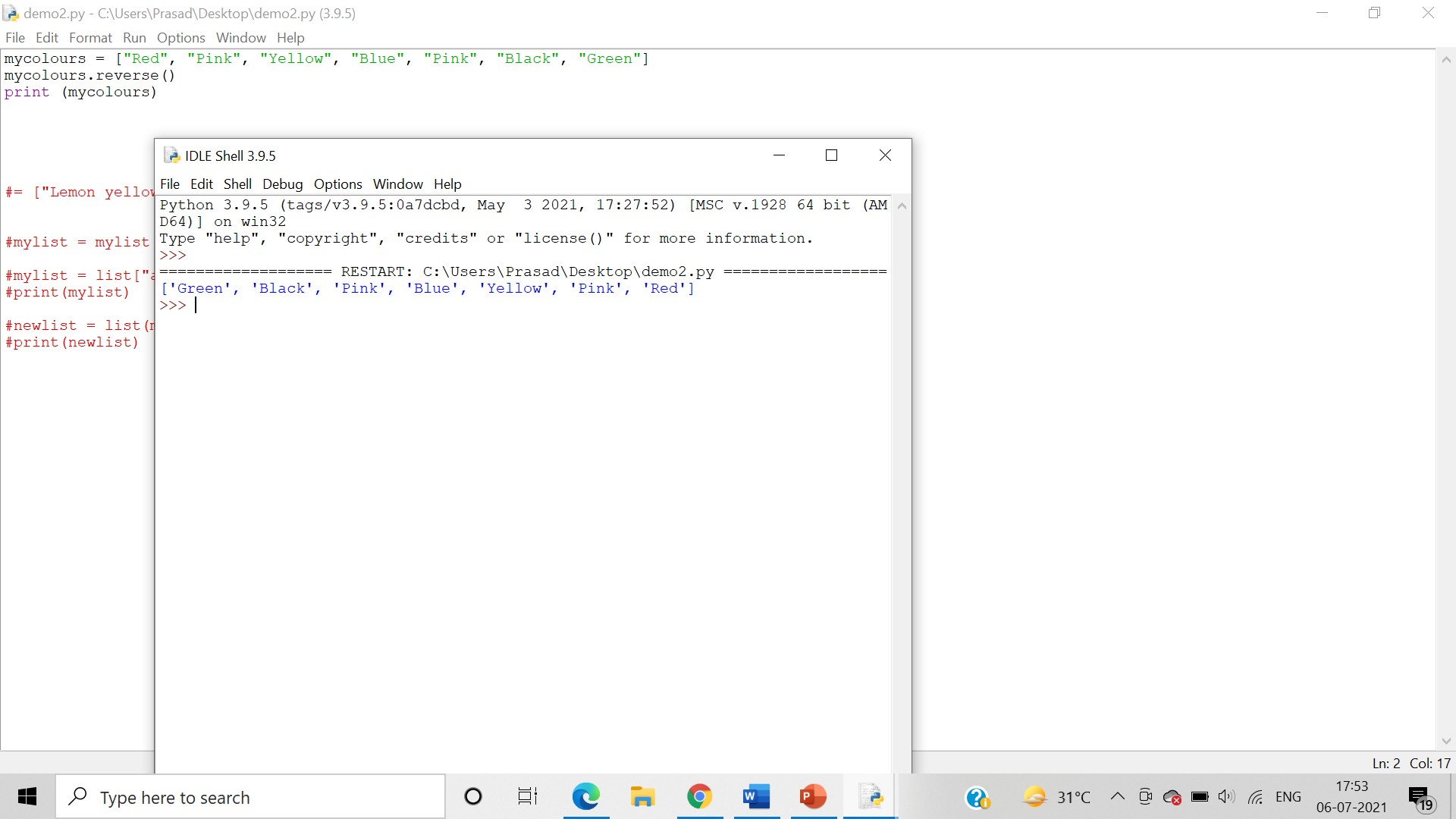
* Pop()



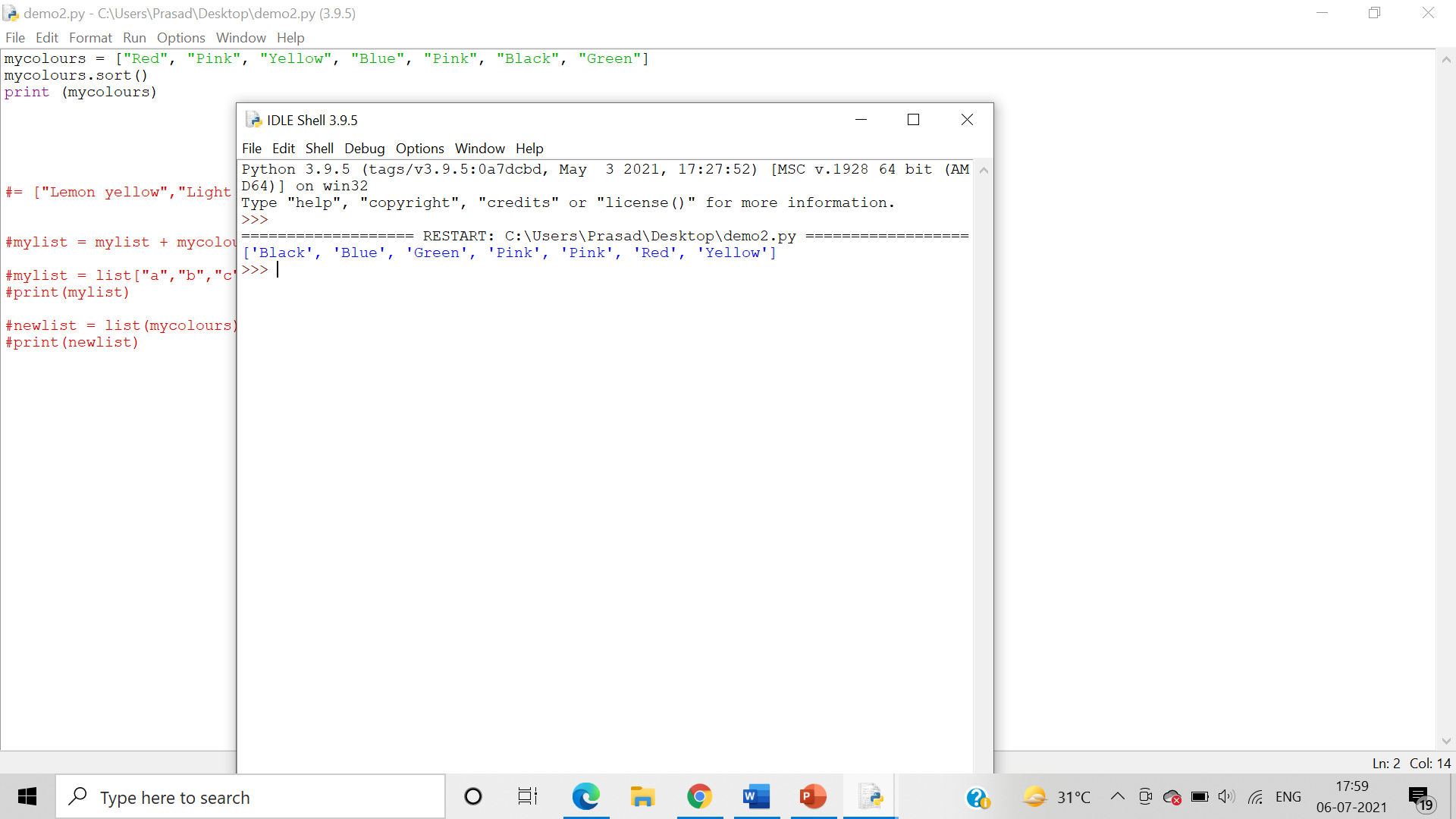
* Remove()



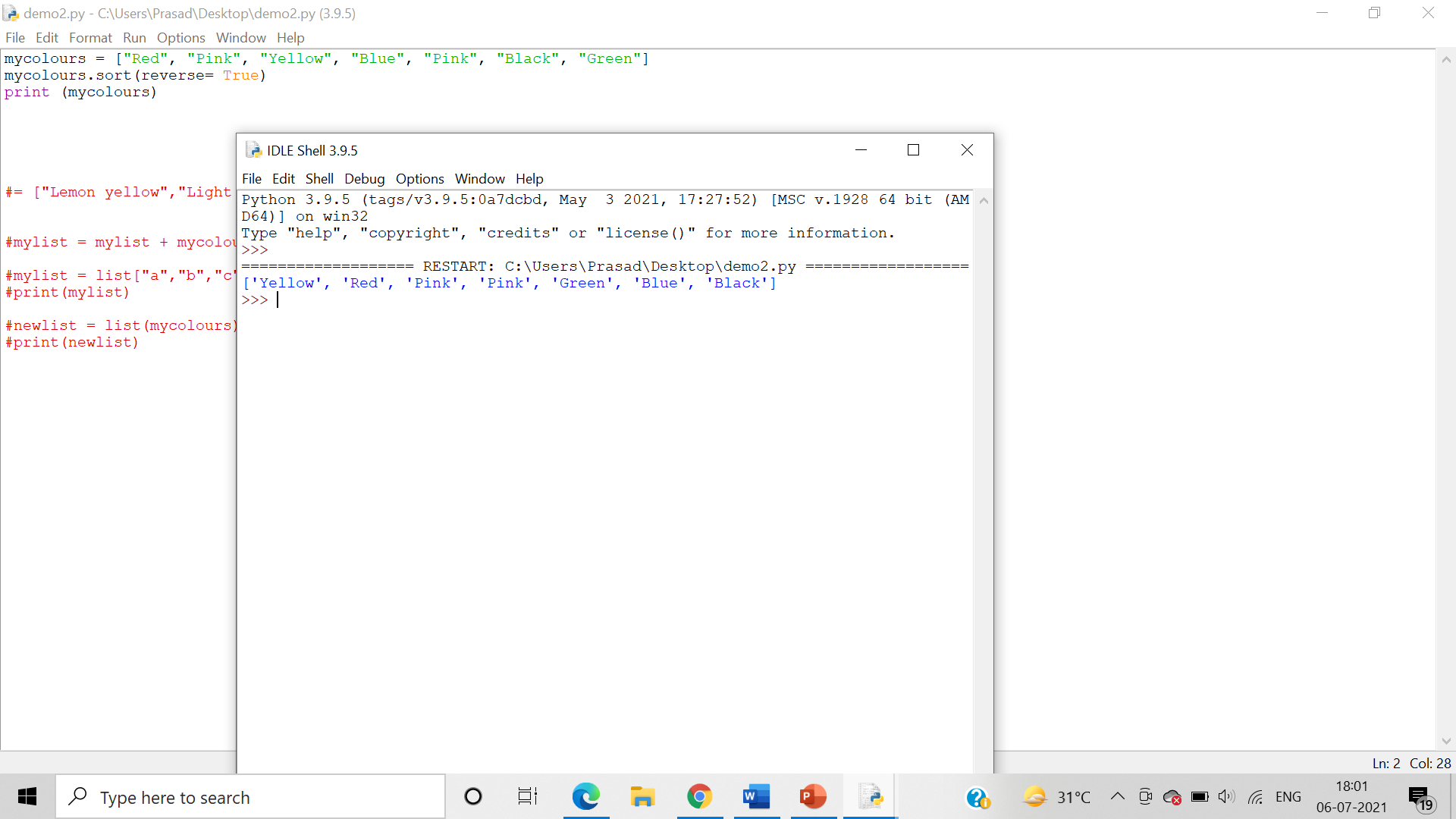
* Reverse()



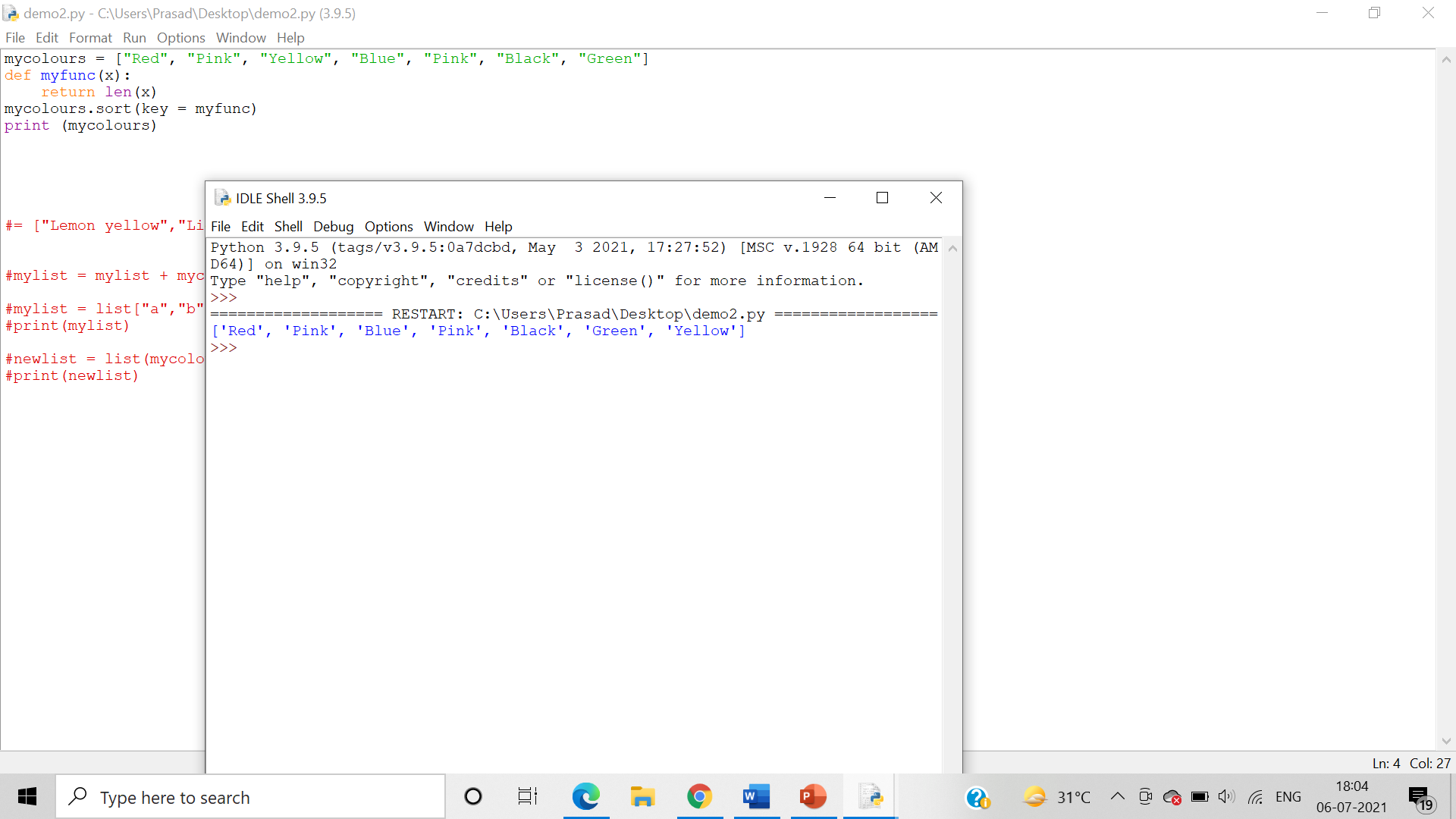
* Sort()



Using reverse parameters:



Declaring a function:

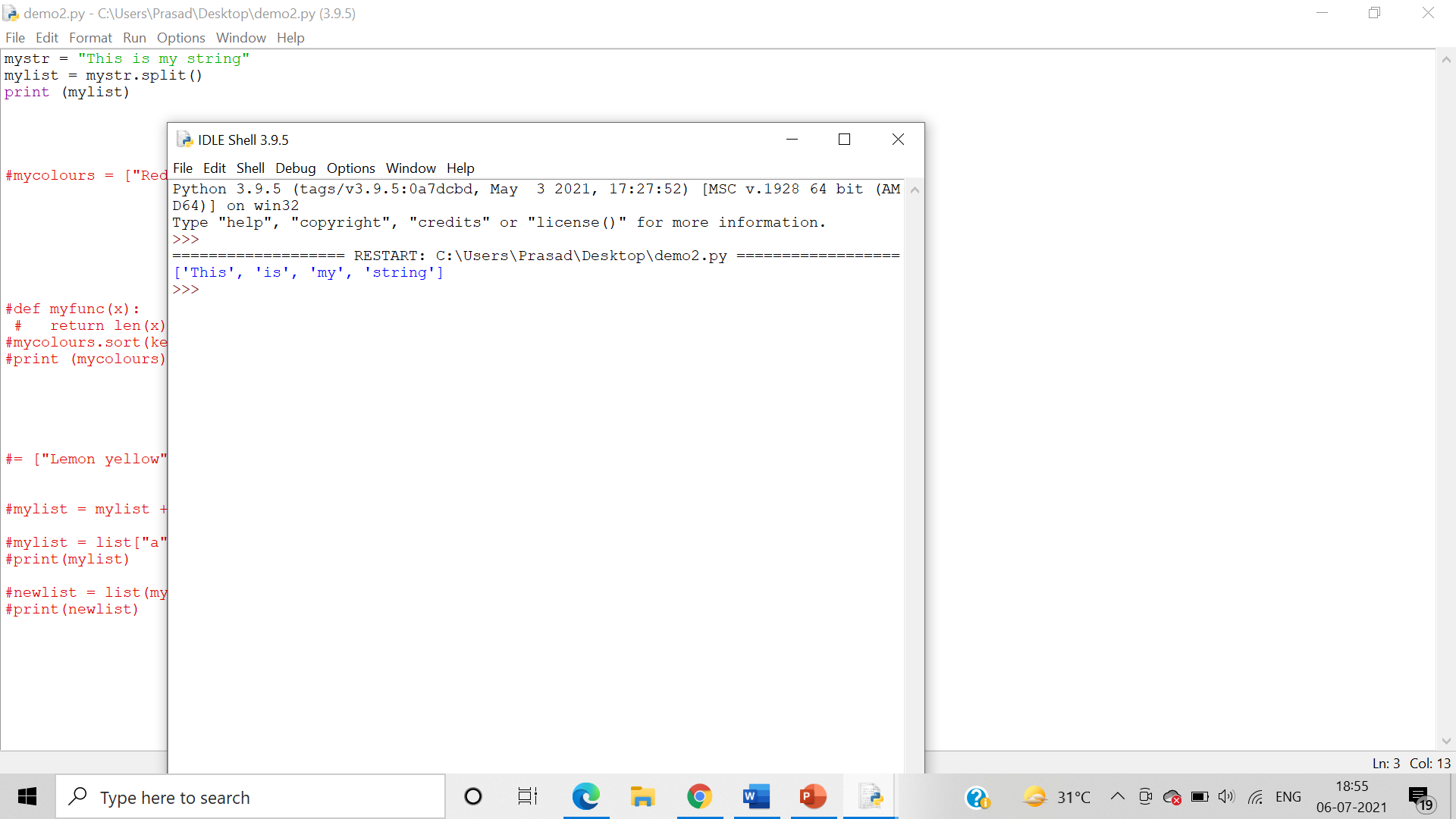


8.     Write a program demonstrating conversion of string to list and list to a string

Answer:Program demonstrating conversion of string to list and list to a string:

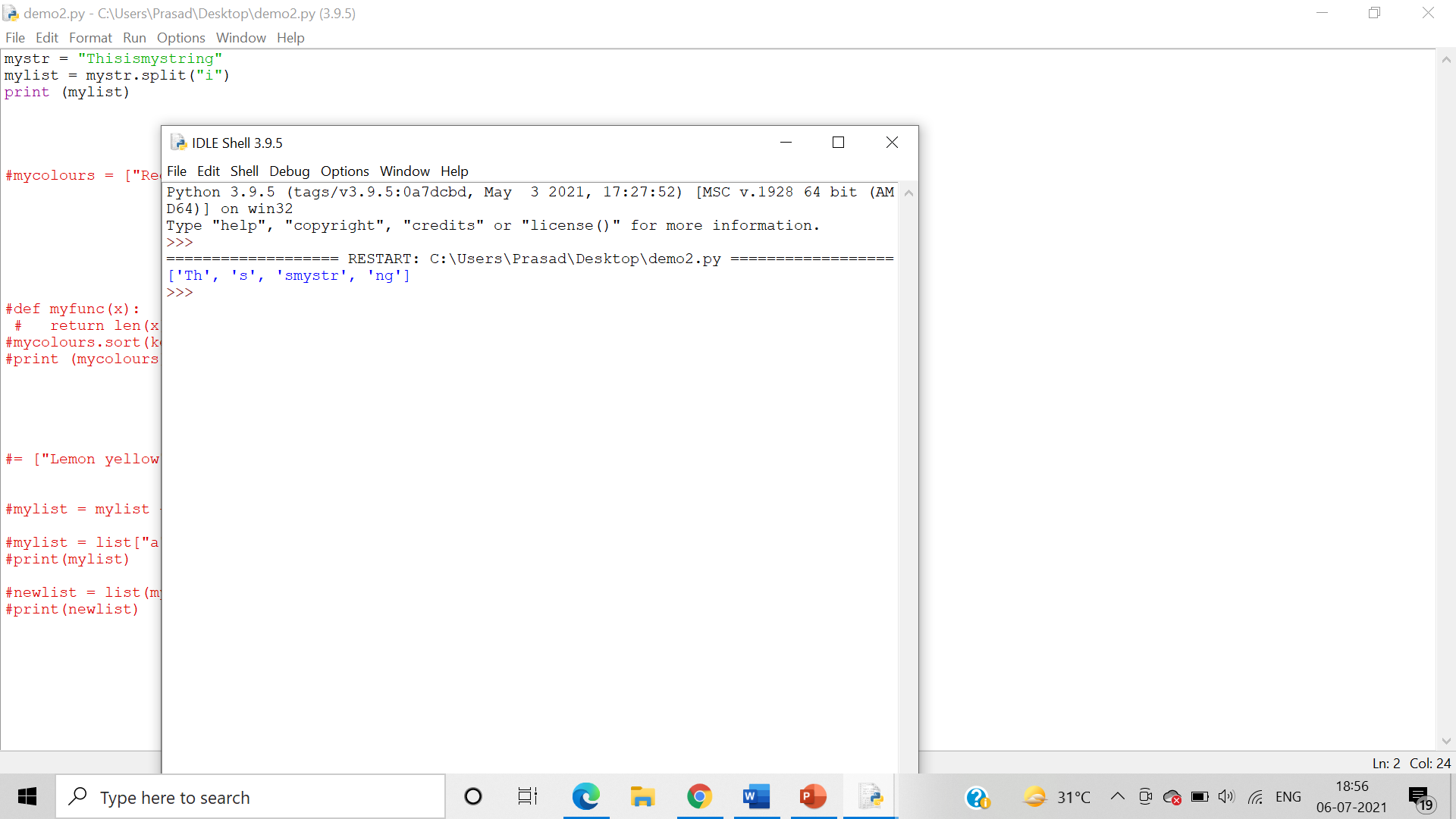
Splitting a string into a list (String Methods) –

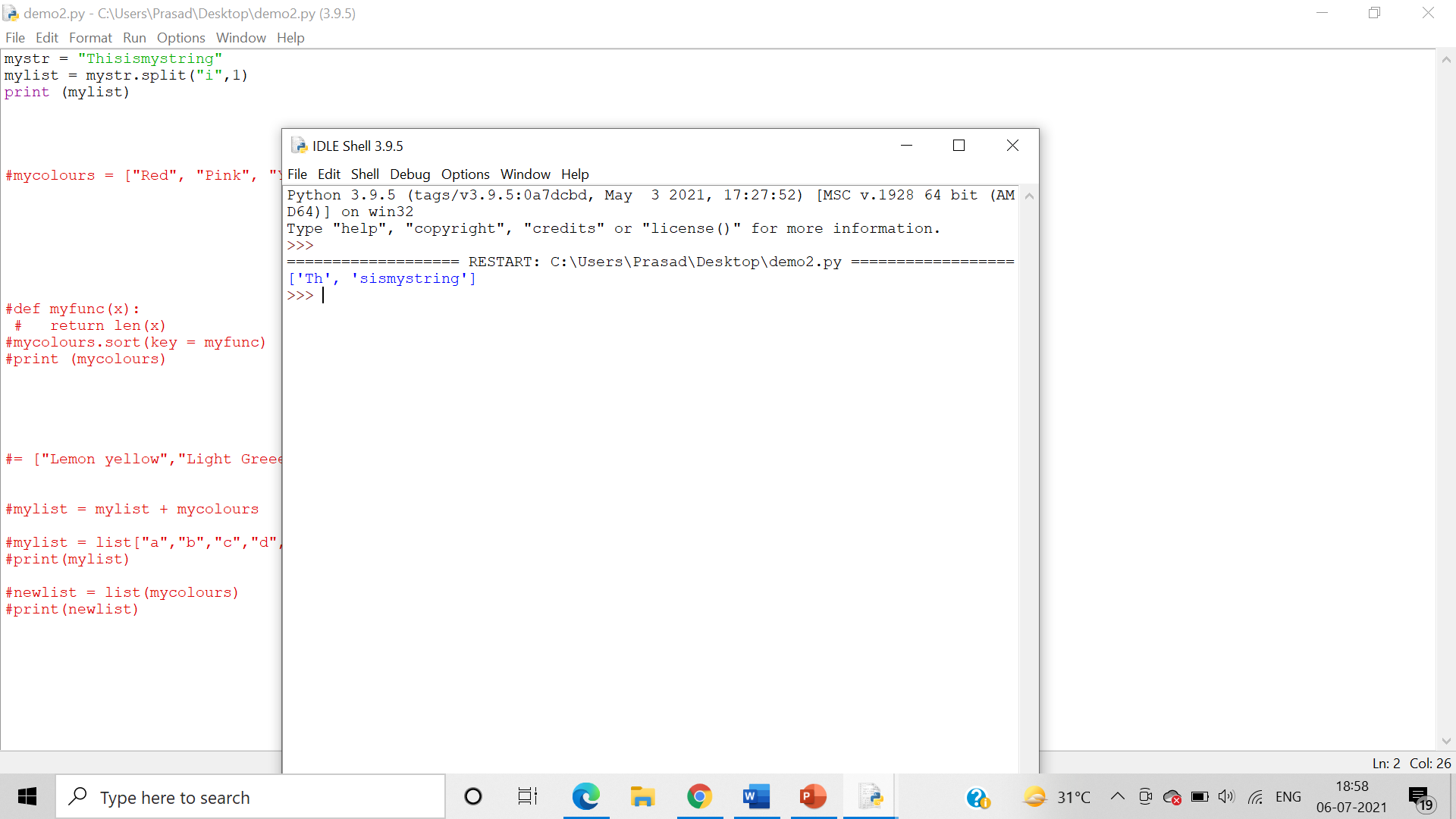
1. split()



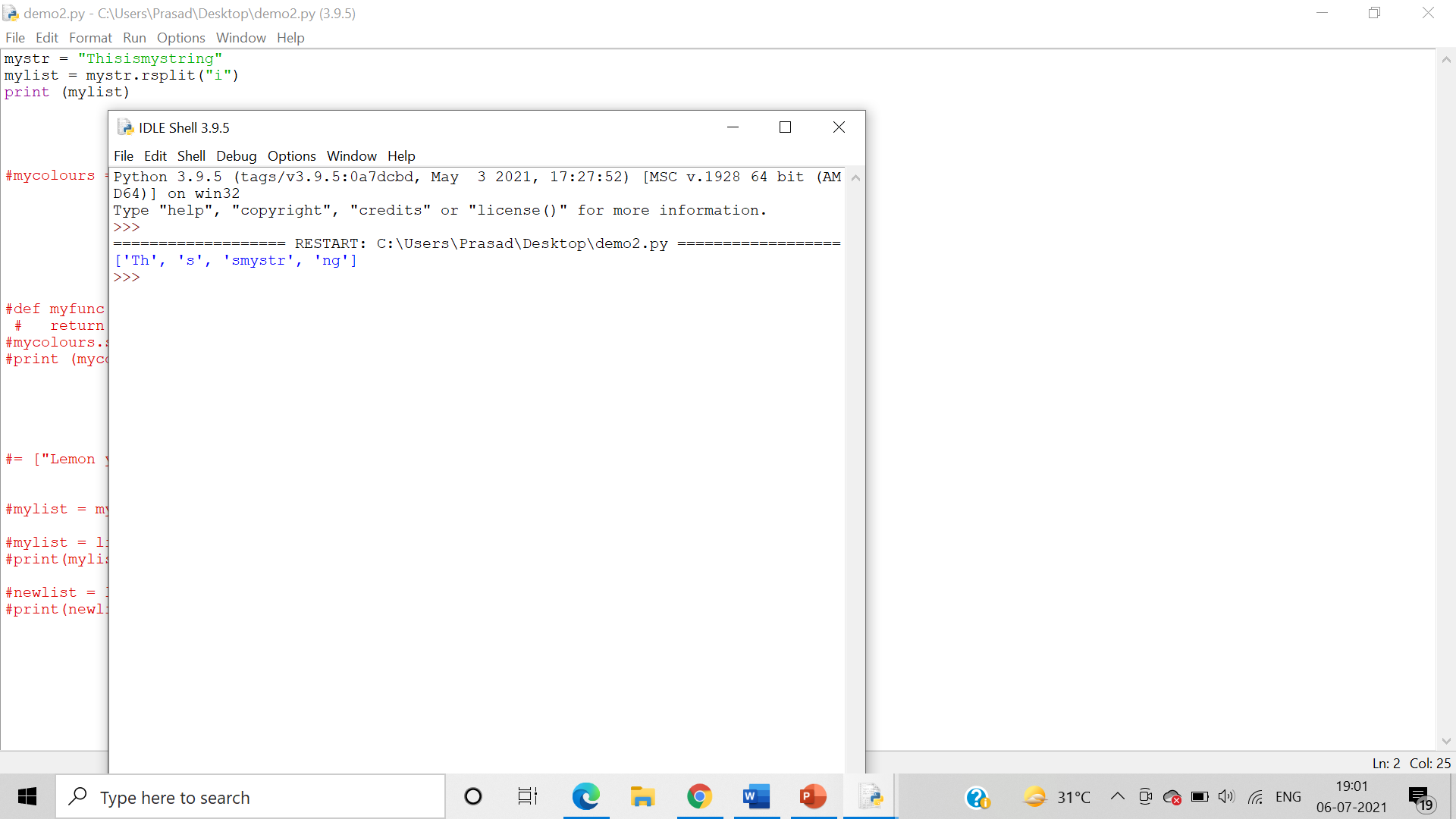


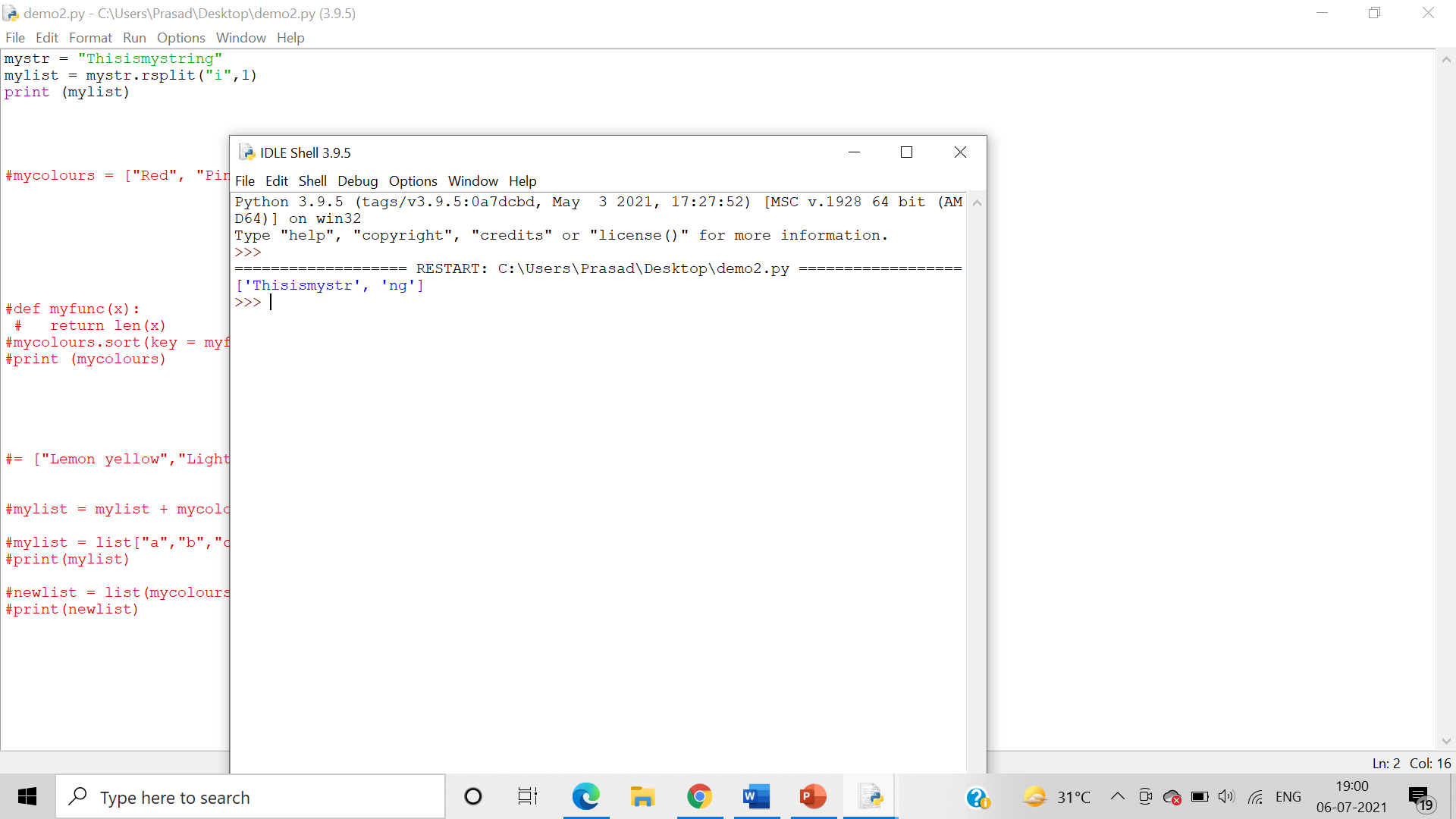
Splitting at the occurrence of “i”

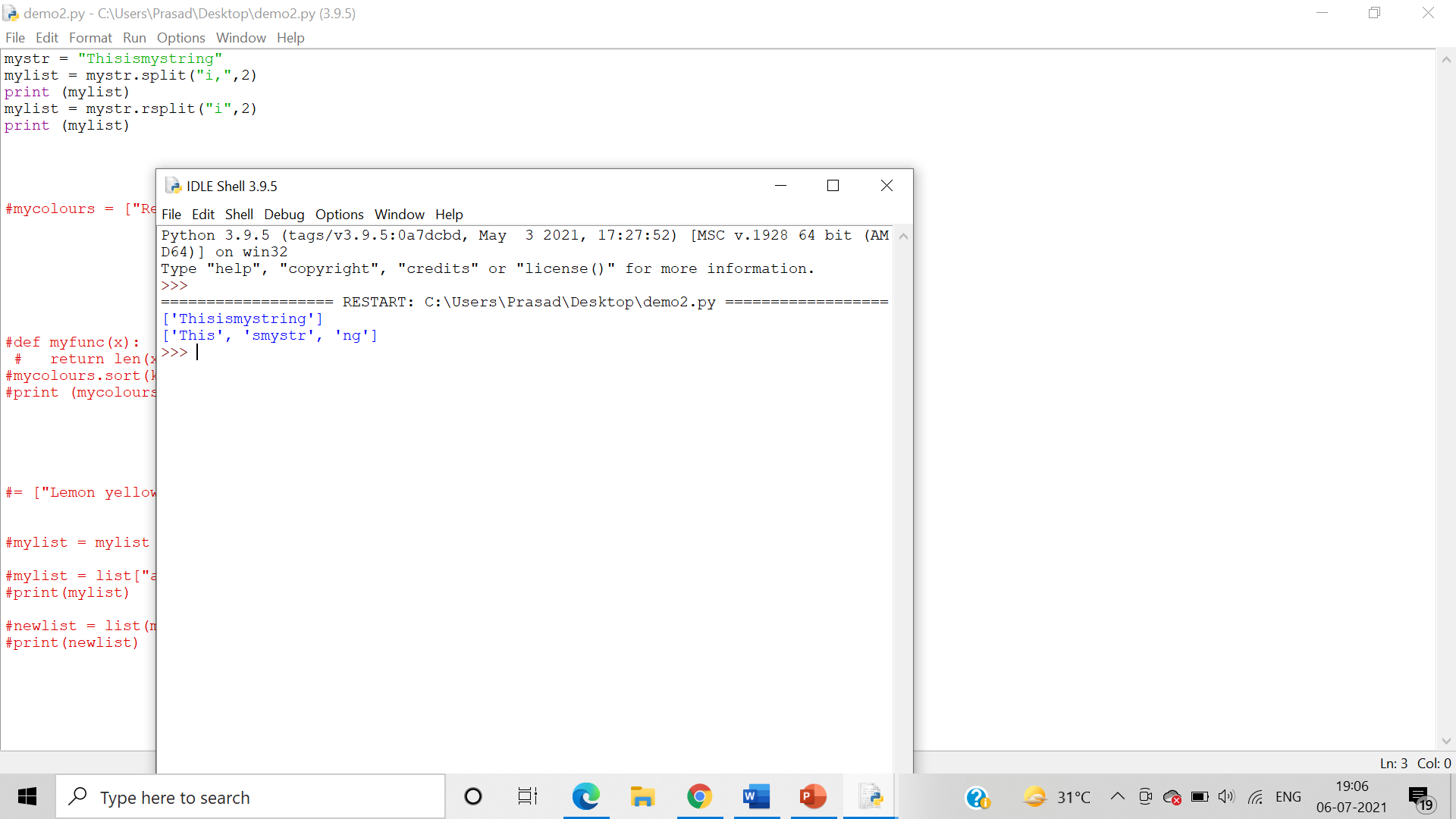




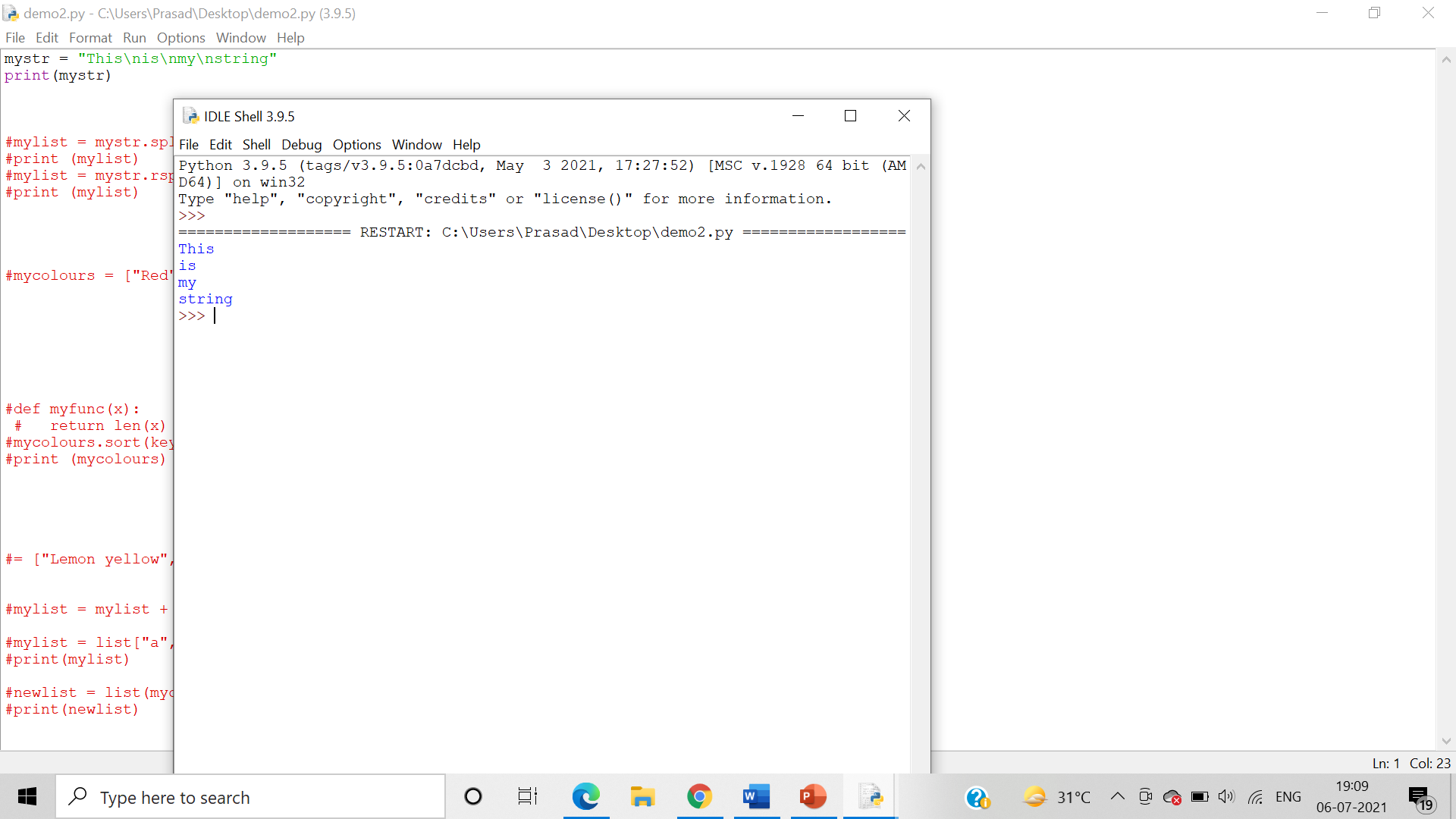
1. rsplit()

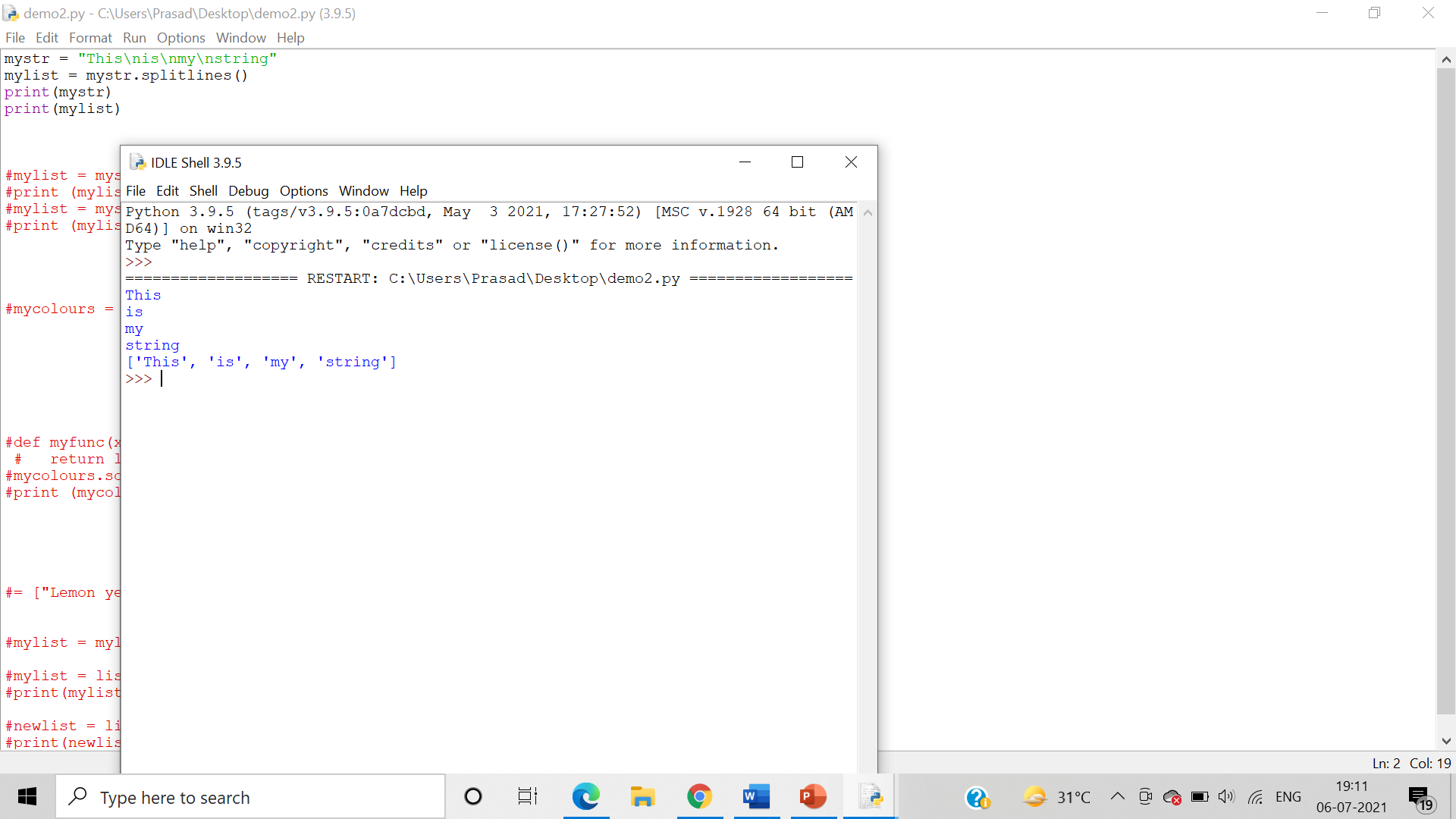


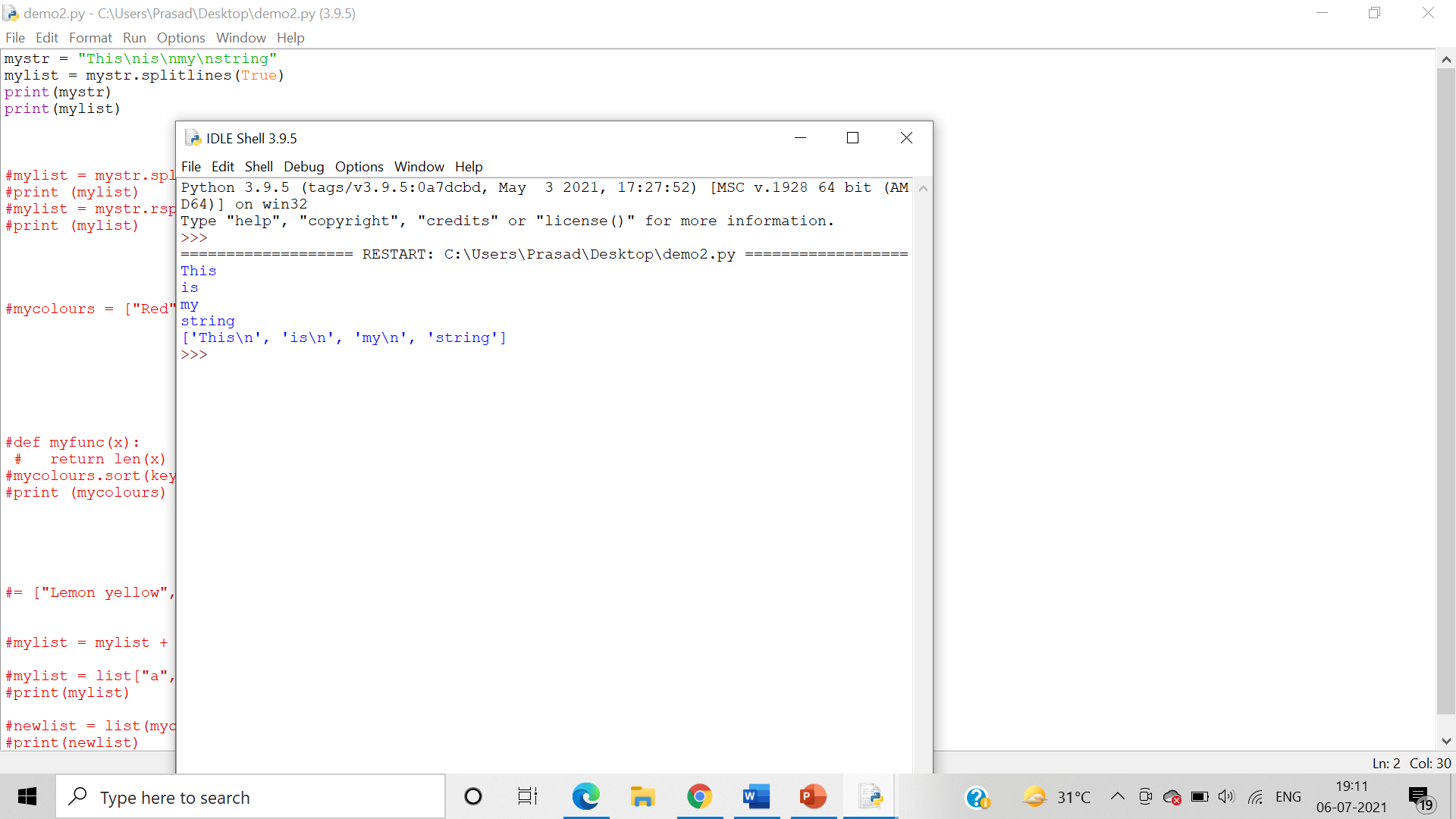




1. splitlines()

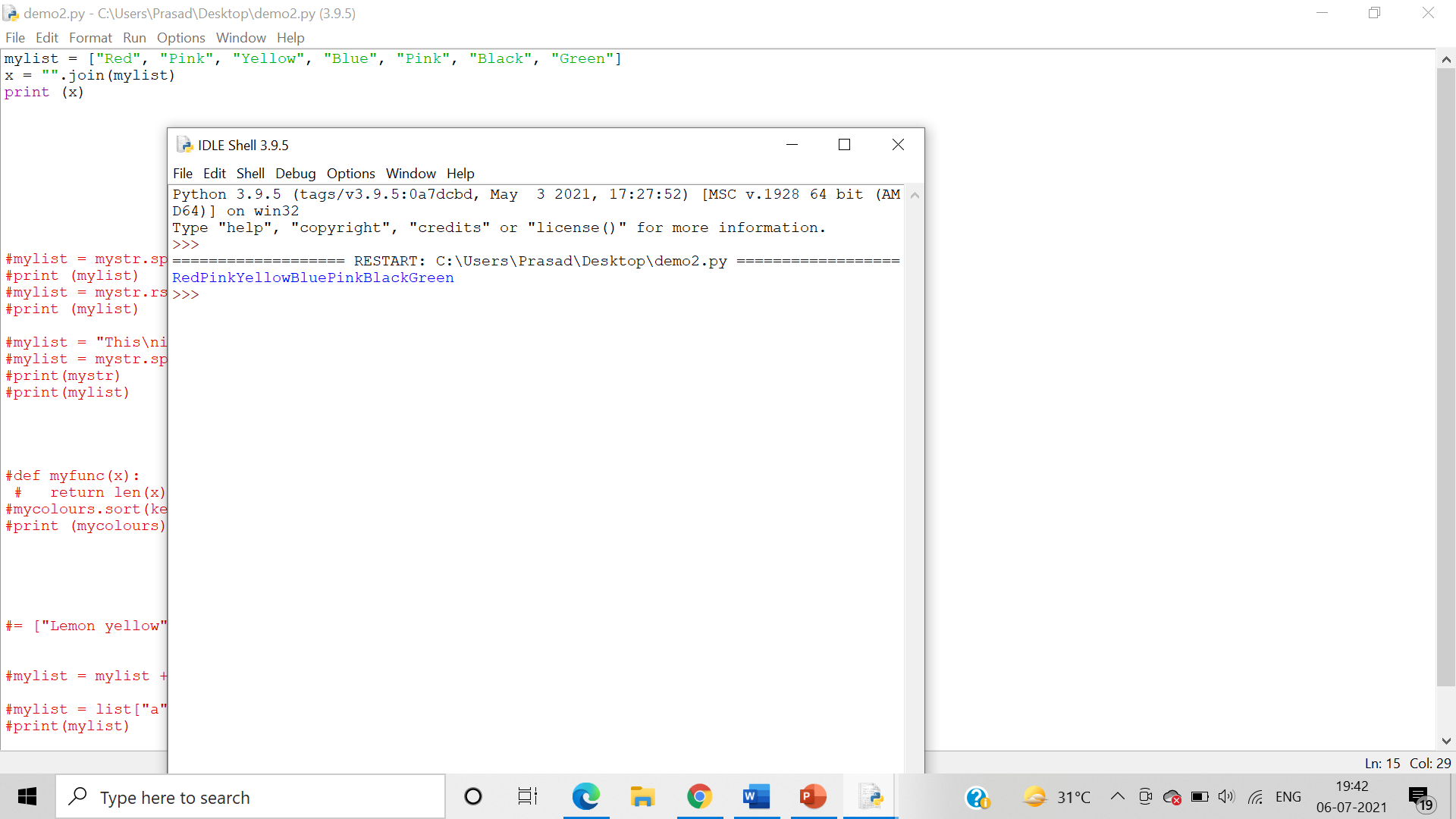


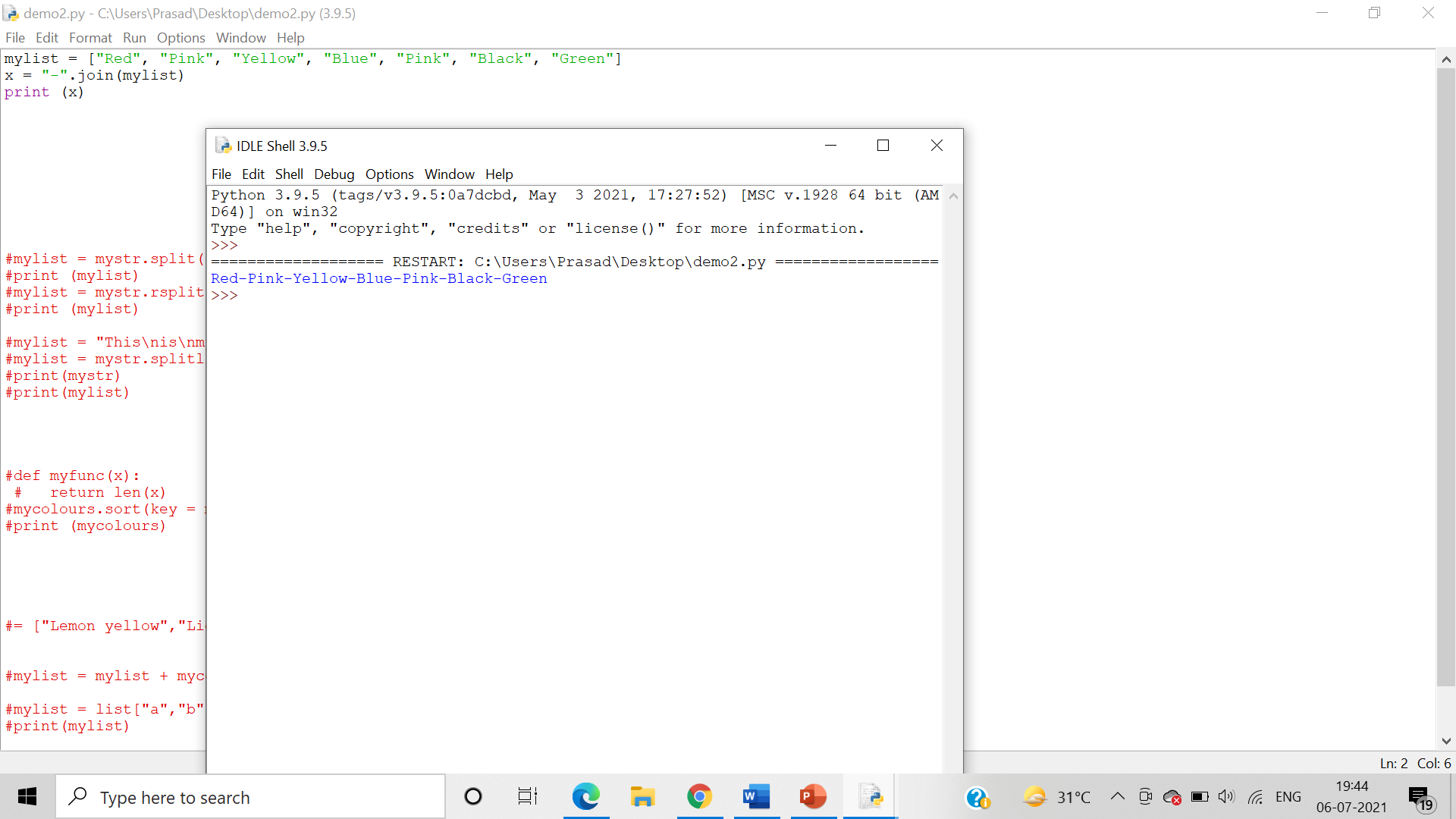


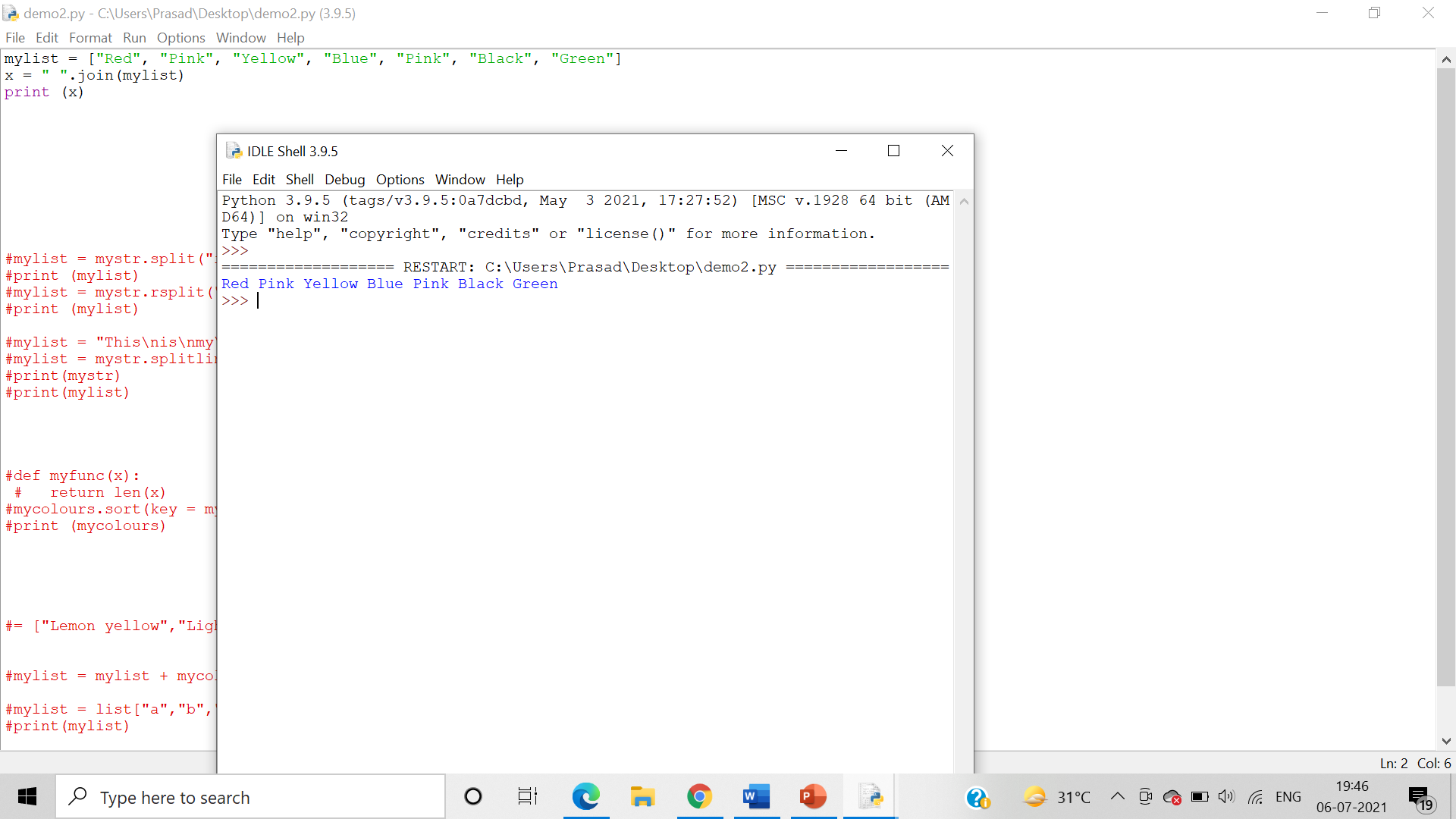


Joining a list into a string –

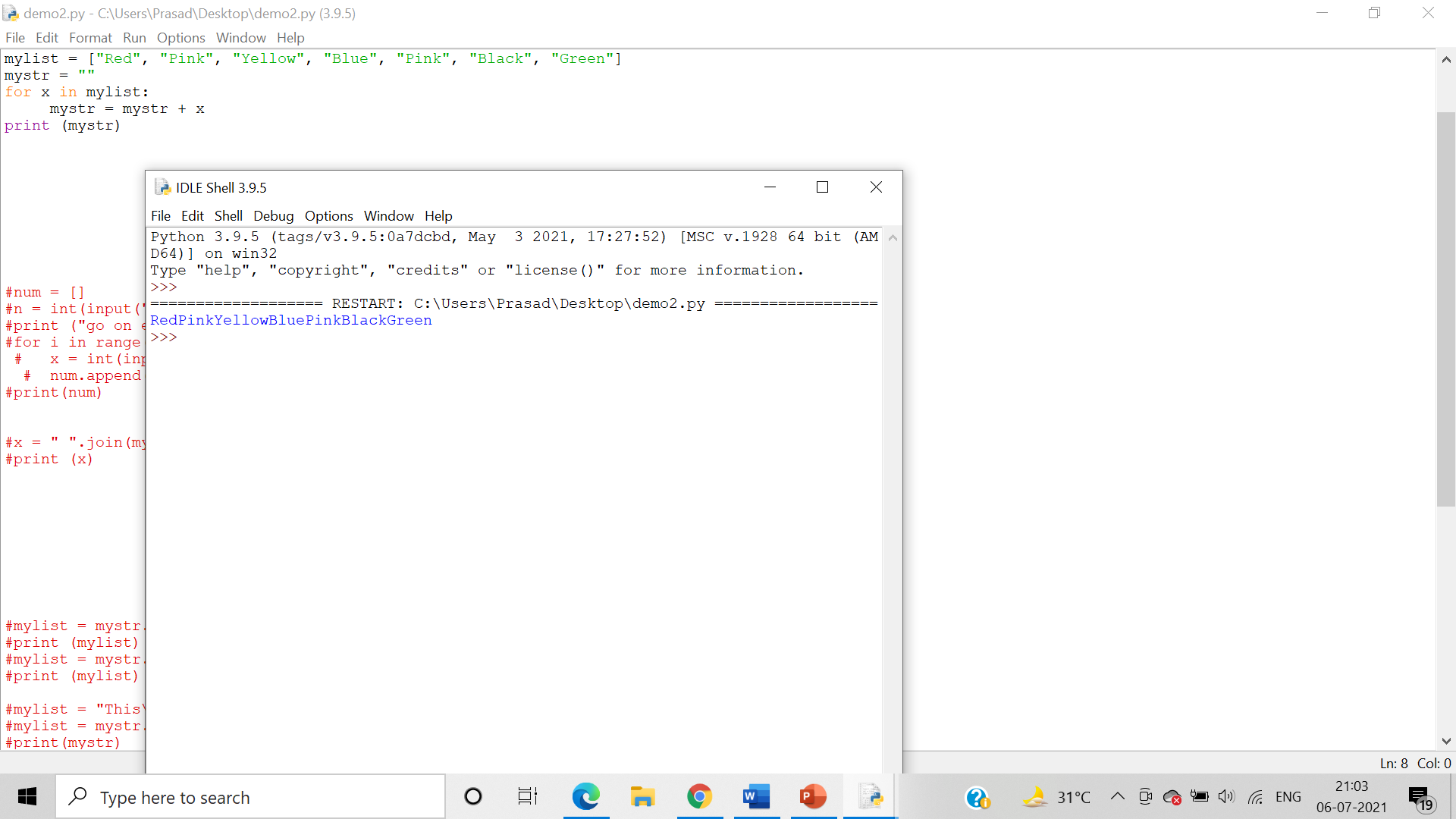
1. join() – list method







1. Use ‘for in’



9.     Write a Python Program to Calculate the Average of Numbers entered by the user in the user-defined list

