```
from py2 import list_example


while True:
    print("**************************__LAB EXERCISE
2__**************************")
    print("\n 1 ->  List ")
    print("\n 2 ->  Dictionaries")
    print("\n 3 -> Exit.")
    print("**********************************************************************
****")
    choice = int(input("\n\nEnter your choice : "))
    if (choice == 1):
         my_list = []
         my_list.append("01")
         my_list.append("arigato")
         my_list.append("Computer Science")
         my_list.append("MCA")
         my_list.append("8.5 GPA")
         my_list.append("8417962000")
         my_list.append("90%")
         my_list.append("anshbhandari.13@gmail.com")
         my_list.append("Male")

         print("List:", my_list)


         my_list.insert(1, "Ansh Bhandari")
         my_list.insert(7, "HOD")

         print("List:", my_list)

         dic = {
         'address': '2nd Cross S.G Palya',
         'city': 'Bangalore',
         'zipcode': '560029'
        }

         my_list.extend(['INDIA', 'User'])
         my_list.extend(list(dic.keys()))

         print("List:", my_list)

         if __name__ == "__main__":
          list_example()
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        my_list = [132, 22, 863, 426, 519]

        first_element = my_list[0]
        last_element = my_list[-1]
        my_list[0] = last_element
        my_list[-1] = first_element
        print(my_list)


        def sum_of_digits(list_of_numbers):
           sum_of_digits = 0
           for number in list_of_numbers:
               sum_of_digits += number
               return sum_of_digits
           print(sum_of_digits(my_list))


        def smallest_element(list_of_numbers):
           smallest_element = list_of_numbers[0]
           for number in list_of_numbers:
               if number < smallest_element:
                smallest_element = number
                return smallest_element

           print(smallest_element(my_list))

# Sort the dictionaries in ascending order based on the Key of the dictionary.
#  Create the dictionary with Numeric as Value in Key – Value pair and find the
sum of all the values in the Dictionary.
#  Write a Python code to demonstrate the sorting in descending order of values
with lambda function

    elif (choice == 2):
        my_dict = {"one": 1, "two": 2, "three": 3, "four": 4, "five": 5}
        sorted_dict = sorted(my_dict.items(), key=lambda x: x[0])
        print("Dictionary sorted in ascending order based on keys:", sorted_dict)


        my_dict = {"one": 1, "two": 2, "three": 3, "four": 4, "five": 5}
        sum_of_values = sum(my_dict.values())
        print(" Sum of all values in the dictionary:", sum_of_values)



        my_dict = {"one": 1, "two": 2, "three": 3, "four": 4, "five": 5}
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        sorted_dict_descending = sorted(my_dict.items(), key=lambda x: x[1],
reverse=True)
        print("Descending Order :",sorted_dict_descending)

    elif choice == 3:
        break
    else:
        print("\nInvalid Input : Please try again")
```
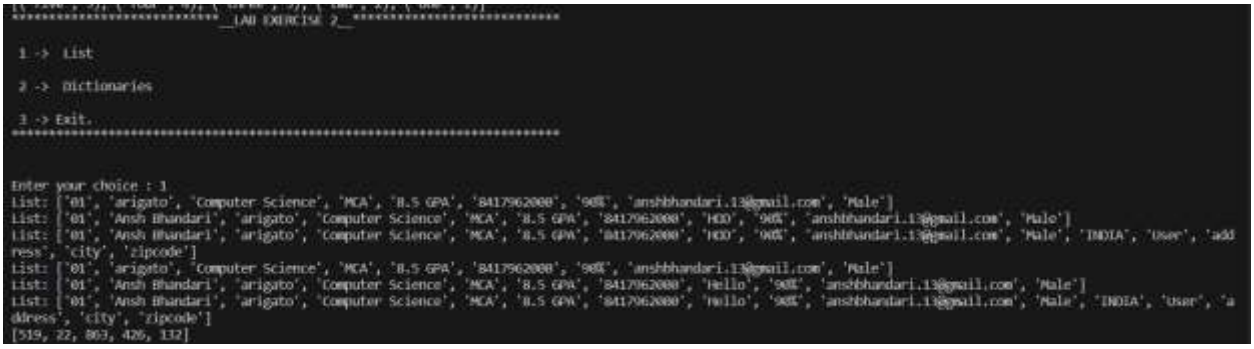
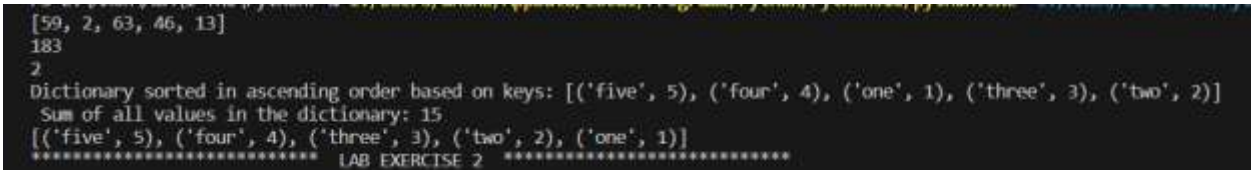
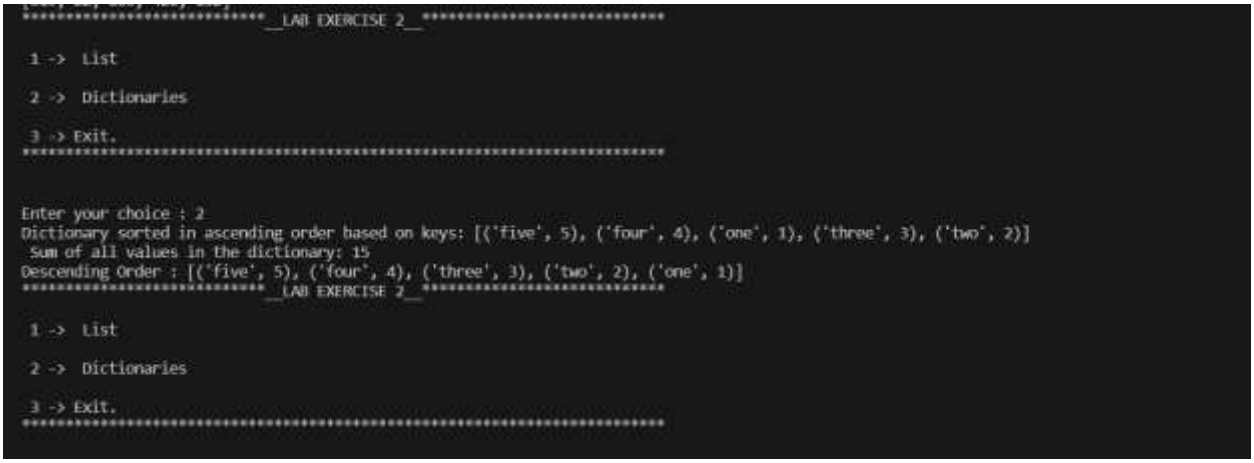
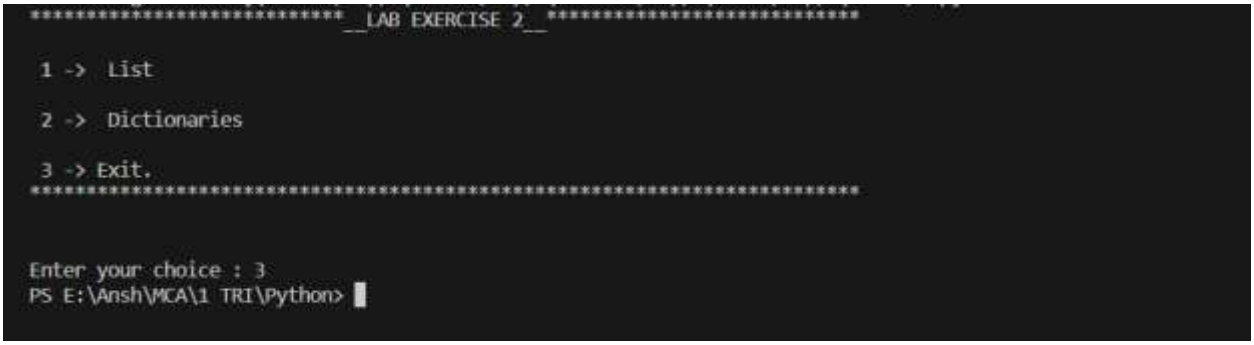

Screenshots:








********** __LAB EXERCISE 2__ **********
1 -> List
2 -> Dictionaries
3 -> Exit.
****
Enter your choice : 3
PS E:\Ansh\MCA\1 TRI\Python>