SAVEETHA SCHOOL OF ENGINEERING

DEPARTMENT OF COMPUTERSCIENCE AND ENGINEERING

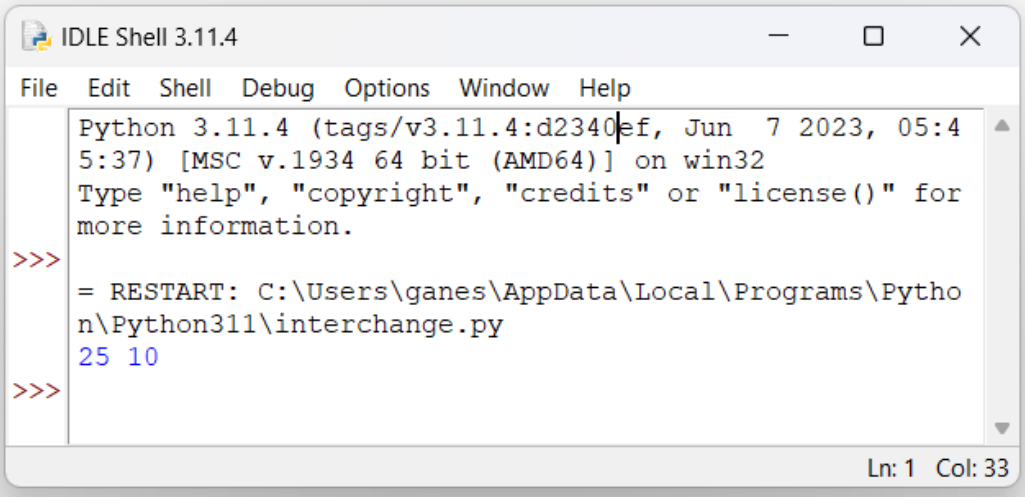
CSA0889 – Python Programming

ASSIGMENT 01

1) Write a python program to interchange first and last elements in a list.

2) Write a python program to swap two elements in a list.

```
File  Edit  Format  Run  Options  Window  Help
def swap(a, b):
    c = a
    a = b
    b = c
    return a, b
my_list = [10, 25]
a, b = my_list
a, b = swap(a, b)
print(a, b)
```



3) Write a python program to reverse a word in a given string.

```
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n=str(input("enter the string:"))
n==n[::-1]
print("reverse word:",n[::-1])
```

```
IDLE Shell 3.11.4
File  Edit  Shell  Debug  Options  Window  Help
Python 3.11.4 (tags/v3.11.4:d2340ef, Jun  7 2023, 05:45:37) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\ganes\AppData\Local\Programs\Python\Python311\reversestr.py
enter the string:ganesh
reverse word: hsenag
>>>
Ln: 7  Col: 0
```

4) Find the length of a string in a python.

```
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n=str(input("enter the string:"))
length_str=len(n)
print("lenfth of string:",length_str)
```

```
IDLE Shell 3.11.4
File  Edit  Shell  Debug  Options  Window  Help
Python 3.11.4 (tags/v3.11.4:d2340ef, Jun  7 2023, 05:45:37) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: C:\Users\ganes\AppData\Local\Programs\Python\Python311\lengthstr.py
enter the string:programmer
lenfth of string: 10
>>>
Ln: 7  Col: 0
```

5) Python program to find maximum and minimum in k elements in a tuple.

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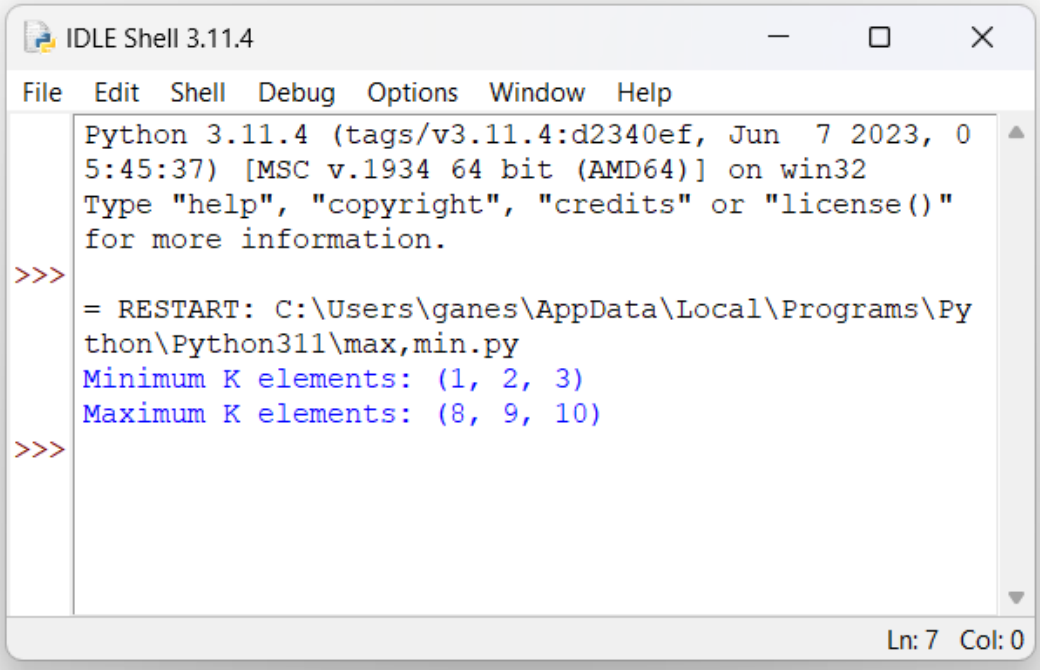
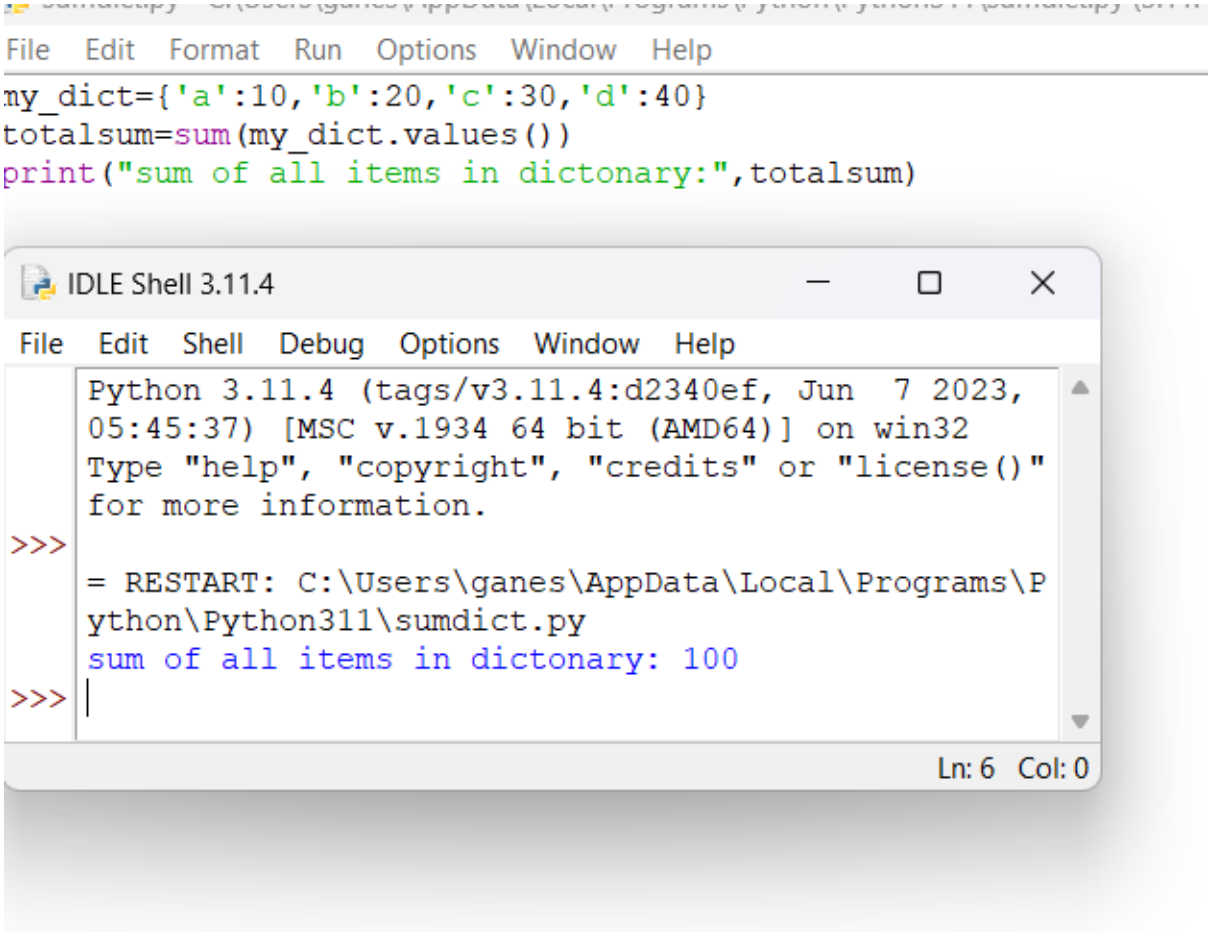
```
def max_min_k_elements(tup, k):
    sorted_tup = tuple(sorted(tup))
    min_k_elements = sorted_tup[:k]
    max_k_elements = sorted_tup[-k:]
    return min_k_elements, max_k_elements
tup = (10, 4, 5, 8, 2, 7, 3, 9, 1, 6)
k = 3
min_k, max_k = max_min_k_elements(tup, k)

print("Minimum K elements:", min_k)
print("Maximum K elements:", max_k)
```



6) Write a python program to find sum of all elements in a dictionary.



7) Write a python program to remove items from set.

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```
my_set=set([12, 10, 13, 15, 8, 9])
my_set.remove(13)
print("after remove:",my_set)
```