

Assignment

1. Write a Python program to find the largest of three numbers.

ans:

```
a=int(input("ENTER THE FIRST NUM:"))
b=int(input("ENTER THE SECOND NUM:"))
c=int(input("ENTER THE THIRD NUM:"))
if a>b and a>c:
    print(a,"is the largest..")
elif b>a and b>c:
    print(b,"is the largest..")
else:
    print(c,"is the largest..")
```

output:

```
ENTER THE FIRST NUM:6
ENTER THE SECOND NUM:99
ENTER THE THIRD NUM:44
99 is the largest..
```

2. Write a Python program to reverse a given string.

ans:

```
a=input("ENTER THE STRING:")
l=len(a)
print("REVERSED STRING:",end="")
for i in range(l-1,-1,-1):
    print(a[i],end="")
```

output:

ENTER THE STRING:QWERTY

REVERSED STRING:YTREWQ

3. Write a Python function to find the largest element in a list. The function should take a list of numbers as a parameter and return the largest number.

ans:

```
def lrg_lst(l):  
    z=0  
    for i in l:  
        if i>z:  
            z=i  
    return z  
a=[6,22,4,99,46]  
p=lrg_lst(a)  
print(p,"is the largest number..")
```

output:

99 is the largest number..

4. Write a Python function to reverse a string. The function should take a string as a parameter and return the reversed string.

ans:

```
def str_rev(s):  
    b=""  
    l=len(s)  
    for i in range(-1,-l-1,-1):
```

```
        b=b+s[i]
    return b
a=str_rev("qwerty")
print("Reversed string:",a)
```

output:

Reversed string: ytrewq

5. Write a Python function to generate a random number between a given minimum and maximum value. The function should take the minimum and maximum values as parameters and return a random number within that range.

ans:

```
def rnd_num(a,b):
    import random
    return random.randrange(a,b)
print("RANDOM NUMBER=",rnd_num(2,9))
```

output:

RANDOM NUMBER= 4

6. Write a Python function to find the sum of all elements in a list.

ans:

```
def lst_ele_sum():
    s=0
    l=[55,66,9,4,31,3,7]
    for i in l:
        s=s+i
    print("SUM=",s)
```

```
lst_ele_sum()
```

output:

```
SUM=175
```

7. Write a Python function to remove duplicate elements from a list.

ans:

```
def lst_dup():  
    l=[1,6,5,48,9,1,2,44,2]  
    l2=[]  
    for i in l:  
        if i not in l2:  
            l2.append(i)  
    print("List after removing duplicate elements:",l2)  
lst_dup()
```

output:

```
List after removing duplicate elements: [1, 6, 5, 48, 9, 2, 44]
```

8. Write a Python function to check if a list is empty.

ans:

```
def lst_emp():  
    l=[]  
    s=len(l)  
    if s==0:  
        print("List is EMPTY..")  
    else:  
        print("List is not EMPTY")
```

```
lst_emp()
```

output:

List is EMPTY..

9. Write a Python function to find the index of a specific element in a list.

ans:

```
def lst_ind(a):  
    l=[5,6,9,7,1,3,4,61,4,5]  
    s=len(l)  
    for i in range(s):  
        if l[i]==a:  
            print("index=",i)  
e=int(input("ENTER THE ELEMENT:"))  
lst_ind(e)
```

output:

```
ENTER THE ELEMENT:1  
index= 4
```

10. Write a Python function to sort a list of numbers in ascending order.

ans:

```
def lst_srt():  
    a=[6,9,4,3,6,4,2,3,4,9,7,5,6]  
    a.sort()  
    print("Sorted list:",a)  
lst_srt()
```

output:

Sorted list: [2, 3, 3, 4, 4, 4, 5, 6, 6, 6, 7, 9, 9]

11. Write a Python function to merge two lists into one.

ans:

```
def merg_lst():  
    a=[9,9,1,3,1,6,1,3]  
    b=[3,1,0,6,6,4,6,7,9,4]  
    a.extend(b)  
    print("Merged List:",a)  
merg_lst()
```

output:

Merged List: [9, 9, 1, 3, 1, 6, 1, 3, 3, 1, 0, 6, 6, 4, 6, 7, 9, 4]

12. Write a Python function to find the average of a list of numbers.

ans:

```
def lst_avg():  
    a=[6,9,71,6,1,7,9,3,2]  
    b=0  
    l=len(a)  
    for i in a:  
        b=b+i  
    print("Average=",b/l)  
lst_avg()
```

output:

Average= 12.666666666666666

13. Write a Python function to check if a list contains a specific value.

ans:

```
def spec(b):  
    l=[1,3,1,5,6,4,6,9,7,45,5]  
    if b in l:  
        print(b,"is in the list..")  
    else:  
        print(b,"is not in the list..")  
a=int(input("ENTER THE NUM:"))  
spec(a)
```

output:

99 is not in the list..

14. Write a Python function to reverse the order of elements in a list.

ans:

```
def lst_rev():  
    l=[5,6,9,7,3,46,7,3,6,2,9,4,1,3,7]  
    l2=[]  
    s=len(l)  
    for i in range(-1,-s-1,-1):  
        l2.append(l[i])  
    print("Reversed list:",l2)  
lst_rev()
```

output:

Reversed list: [7, 3, 1, 4, 9, 2, 6, 3, 7, 46, 3, 7, 9, 6, 5]

15. Write a Python function to remove the last element from a list.

ans:

```
def lst_last_ele_rem():  
    a=[1,3,5,9,4,6,4,5,7,5,4,7,2,1,8]  
    a.pop(-1)  
    print("List after removing the last element:",a)  
lst_last_ele_rem()
```

output:

List after removing the last element: [1, 3, 5, 9, 4, 6, 4, 5, 7, 5, 4, 7, 2, 1]

16. Write a python program to create a timer.

ans:

```
import time  
my_time=int(input("enter the time in second:"))  
for x in range(my_time,0,-1):  
    seconds=x%60  
    print(f"00:00:{seconds}")  
    time.sleep(1)  
print("TIME'S UP!")
```