ASSIGNMENT

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

CODE:

```
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.

CODE:

```
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.

CODE:

```
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.

CODE:

```
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.

CODE:

```
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.

CODE:

```
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.

CODE:

```
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.

CODE:

```
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.

CODE:

```
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.

CODE:

```
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.

CODE:

```
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.

CODE:

```
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.

CODE:

```
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.

CODE:

```
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.

CODE:

```
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.

CODE:

```
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!")
```