Python Assignment

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

Code:

```
a=10
b=12
c=19
if a>b and b>c:
   print("largest number is a")
elif b>c and c>a:
  print("largest number is b")
else:
  print("largest number is c")
```

Output:

```
largest number is c
```

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

Code:

```
st_r=input("enter the string: ")
a=""
for i in st_r:
   a=i+a
print("reversed string is :",a)
```

Output:

```
enter the string: mango
reversed string is : ognam
```

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 larger_lst(ls):
   emp=0
   for i in ls:
      if i>emp:
         emp=i
```

```
    print("the largest number in list is :",emp)
a=[6,22,4,99,46,101]
larger_lst(a)
```

Output:

the largest number in list is : 101

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 rev_str(a):
    b=""
    for i in a:
        b=i+b
    print("the reversed string is : ",b)
name="sanjay"
rev_str(name)
```

Output:

the reversed string is : yajnas

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:

```
import random
def rand_nbr(num1,num2):
    return random.randint(num1,num2)

result=rand_nbr(5,20)
print("value between minimum and max is :",result)
```

Output:

value between minimum and max is : 8

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

Code:

```
def sum_elm(ls):
   count=0
   for i in ls:
      count=count+i
   print("sum of element in the list is : ",count)
elem=[10,20,30,40,50]
sum_elm(elem)
```

Output:

```
sum of element in the list is :  150
```

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

Code:

```
def dupe(ls):
   es=[]
   for i in ls:
      if i not in es:
         es.append(i)
   print("elements are : ",es)
nw=[10,20,10,30,40,20]
dupe(nw)
```

Output:

```
elements are :  [10, 20, 30, 40]
```

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

Code:

```
def empty(ns):
   if len(ns)==0:
      return 0
   else:
      return 1
ls=[]
if empty(ls):
```

```
    print("the list contain value")
else:
    print(" the list is empty")
```

Output:

```
the list is empty
```

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

Code:

```
def list_ind(nl):
    for i in range(len(nl)):
        if nl[i]==num:
            print("the index is :",i)
            break

l1=[12,34,54,21,45,55]
num=int(input("enter the number want to check : "))
list_ind(l1)
```

Output:

```
enter the number want to check : 45
the index is : 4
```

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

Code:

```
def lst_sort(elem):
    elem.sort()
    print("sorted list elements is :",elem)
lst=[10,50,30,15,9]
lst_sort(lst)
```

Output:

```
sorted list elements is : [9, 10, 15, 30, 50]
```

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

Code:

```
def mrge_lst(lst1,lst2):
   nw_lst=lst1+lst2
   print("new merged list is : ",nw_lst)

l1=[22,34,54,12]
l2=[23,32,43,56]
mrge_lst(l1,l2)
```

Output:

```
new merged list is :  [22, 34, 54, 12, 23, 32, 43, 56]
```

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

Code:

```
def avg_num(lst):
   count=0
   for i in lst:
      count=count+i
   avg=count/len(lst)
   print("average of list is :",avg)
l1=[10,20,30,40,50]
avg_num(l1)
```

Output:

```
average of list is : 30.0
```

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

Code:

```
def spec(ls1):
   if usr_inp in ls1:
      print("the value is in the list")
   else:
      print("the value is not in the list")
```

```
lst=[10,20,30,40,50,60,70]
usr_inp=int(input("enter the value you want to check :"))
spec(lst)
```

Output:

```
enter the value you want to check :60
the value is in the list
```

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

Code:

```
def rev_lst(ls):
   emp_l=[]
   for i in range(-1,-a-1,-1):
      emp_l.append(l[i])
   print("reversed list is :",emp_l)

l=[11,23,44,55]
a=len(l)
rev_lst(l)
```

Output:

```
reversed list is : [55, 44, 23, 11]
```

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

Code:

```
def removing_ele(ls_em):
   nw=[]
   for i in range(0,a-1):
      nw.append(ls_em[i])
   print("new lis is :",nw)

ls=[12,13,14,15,16]
a=len(ls)
removing_ele(ls)
```

Output:

new lis is : [12, 13, 14, 15]

16.create a timer using python ?

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!")
```