WEEK-4

1. Write a program to demonstrate working with tuples in python.

   Source code:

```
My_tuple = ("apple", "banana", "cherry","mango","grape","orange")
print("\n Created tuple is :",my_tuple)
print("\n Second fruit is :",my_tuple[1])
print("\n From 3-6 fruits are :", my_tuple[3:6])
print("\n List of all items in Tuple :")
for x in my_tuple:
  print(x)
if "apple" in my_tuple:
  print("\n Yes, 'apple' is in the fruits tuple")
print("\n Length of Tuple is :",len(my_tuple))
```

   Output:

```
E:\Python>python week6.py

 Created tuple is : ('apple', 'banana', 'cherry', 'mango', 'grape', 'orange')

 Second fruit is : banana

 From 3-6 fruits are : ('mango', 'grape', 'orange')

 List of all items in Tuple :
apple
banana
cherry
mango
grape
orange

 Yes, 'apple' is in the fruits tuple

 Length of Tuple is : 6
```

Description: A tuple is an ordered, immutable sequence of elements that can contain a mix of different data types. To create a tuple, you can use parentheses () with elements separated by commas ,. We can access the elements of a tuple by using indexing, negative indexing and slicing.

2. Write a python program on concatenation of tuples.

   Source code:

```
tuple1=(0,1,2)
tuple2=('python','R')
#concatenation
Print(tuple1+tuple2)
```

Output:

Description:

To concatenation of python tuples, we will use plus operator '+'.

For Loop

3. write a function to add two numbers.

Source code:

```
#Python program to add two numbers using function

def add_num(a,b):#function for addition
    sum=a+b;
    return sum; #return value

num1=25  #variable declaration
num2=55
print("The sum is",add_num(num1,num2))#call the function
```

Output:

```
The sum is 80
```

Description:
Here add_num() function is used to add two numbers, def is a keyword to define our user defined functions in python