**Assignment - 16 Full Stack Web Development using Python MySirG**

Tuple

**1. Write a python script to store multiple items in a single variable ( Items are “Java”**

**,“Python”, “SQL”, “C” ) using tuple**

'tuple storing the multiple types of values'

t=(4,3,"listing")

print(t)

**2. Write a python program to store only one item using tuple.**

t=(4)

print(t)

**3. Write a python program to reverse the tuple.**

def reverse\_tuple(t):

return tuple(reversed(t))

# Example usage

tuple1 = (1, 2, 3, 4, 5)

reversed\_tuple = reverse\_tuple(tuple1)

print(reversed\_tuple)

**4. Write a python program to Swap two tuples in Python.**

"4. Write a python program to Swap two tuples i"

def swap\_tuples(t1, t2):

return t2, t1

# Example usage

tuple1 = (1, 2, 3)

tuple2 = (4, 5, 6)

tuple1, tuple2 = swap\_tuples(tuple1, tuple2)

print(tuple1)

print(tuple2)

**5. Write a python program to check if all items in the tuple are the same**.

# Example usage

tuple1 = (1)

tuple2 = (4)

#conditon

if ((tuple1,tuple2)==1):

print("true")

else:

print("false")

**6. Write a python program to divide the tuple into four variables.**

**tuple1=(100, 200, 300, 400)**

tuple1=(100,200,300,400)

a,b,c,d=(tuple1)

print(a)

print(b)

print(c)

print(d)

**7. Write a python program to copy elements 4 and 5 from the following tuple into a new**

**tuple. tuple1=(1,2,3,4,5,6)**

tuple1=(1,2,3,4,5,6)

tuple2=tuple1[3:5]

print(tuple2)

**9. Write a python program to print the value 20 from given nested tuple**

**tuple1 = ("Python", [10, 20, 30], (2, 4, 16))**

tuple1 = ("Python", [10, 20, 30], (2, 4, 16))

tuple2=(tuple1[1])

tuple3=(tuple2[1])

print(tuple3)

**10. Write a python program to change the first item (22) of a list within the following tuple**

**to 222.**

**tuple1 = (11, [22, 33], 44, 55)**

tuple1 = (11, [22, 33], 44, 55)

list1 = list(tuple1)

list1[1][0] = 222

tuple1 = tuple(list1)

print(tuple1)