

TUPLE - WORKSHEET

1. What are the differences between List and Tuple? Similarities between Tuple and String?
2. What do you mean by packing and unpacking of a Tuple? Explain with an example.
3. Write a statement to add a string 'BOOK' with the existing Tuple, t=(10,20,30)
4. Find out the error and rectify:

a. a=(1,'satvik',4,2)

```
print(max(a))
```

b. t=(1,'s','h',5,'p')

```
t[1]='o'
```

c. t1=(100)

```
t2=t1+t2
```

d. t1=(1,2,3)

```
t2=(4,5,6)
```

```
t2,t1,t3=t1,t2
```

e. t1=(1,2,3)

```
t2=t1*(2,)
```

f. t1=(1,2,3,4)

```
t1=t1+10
```

g. t1=("5",)*3'

```
print(t1)
```

h. t1=(1,2,3,4)

```
a,b,c=t1
```

5. Write a function ALTER1() that takes a tuple containing 5 elements as parameter and returns the same after removing the mid element without using packing and unpacking and another function ALTER2() to do the same by packing and unpacking.

6. PREDICT THE OUTPUT

```
t1=(10,20,'BOOK',30,9.5,'item',[12,13],(3,4),30,5,30)
```

```
print(len(t1))
```

```
print(t1[:6])
```

```
print(t1[-8:-4])
```

```
print(t1[5:])
```

```
print(t1.index(20))
```

```
print(t1.index(30))
```

```
print(t1.count(30))
```

```
print(t1[:1]*5)
```

7. PREDICT THE OUTPUT

```
t1=("TEA POT",[1,2,'3'],'S',(3,4,6),"BOOK",10)
print(t1[1][1])
print(10 in t1)
print(50 not in t1)
print(t1[4][3])
print(t1[1][2]*3)
print(t1[-5:-3]+t1[3])
print(t1[0]+t1[2])
print(t1[4:4])
```

8. PREDICT THE OUTPUT

```
print(tuple("book"))
print(tuple(34,45,89))
print(("ganesh",)*3)
```

```
tup1=(1,2,3)
tup2=(1.0,2.0,3.0)
print(tup1==tup2)
```

```
tup1=('gita','guru','pinky')
tup2=("RAVI","MALA","AMRUTH")
print(tup1<tup2)
```

```
tup1=(10,20,30,40,50)
tup2=(4,5,10,20,30,40,50)
print(tup2>tup1)
print(tup1!=tup2)
tup1,tup2=tup2,tup1
print(tup1)
print(tup2)
```

9. Write a program which contains 5 functions:-Create(),Display(),Inter_change(), Maximum(), Minimum() to create a tuple of 10 elements, to display the tuple, to interchange the values of adjacent elements, finding the maximum value without using inbuilt fn, finding the minimum value without using inbuilt fn respectively. Invoke the functions to perform the task. Note: All functions are non void parameterized functions having tuple as parameter; display the original tuple and also after interchanging the values.

HEEMA