1. **Find outputs (Homework)**

```
a = (25 , 10.8 , 'Hyd' , True , 3+4j , None , 'Hyd' , 25)

print(a) # (25 , 10.8 , 'Hyd' , True , 3+4j , None , 'Hyd' , 25)

print(*a) #25 10.8 ‘Hyd’ True 3+4j None ‘Hyd’ 25

print(type(a)) #class ‘tuple’

print(len(a)) #8

print(a[2 : 5]) #(‘Hyd’, True, 3+4j)

print(*a[2 : 5]) #’Hyd’ True 3+4j

a[2] = 'Sec' #Error #Reason elements in the tuple can’t be modifies as tuple is immutable

a . append('Sec') #Error #Reason elements in the tuple can’t be modifies as tuple is immutable

a . remove('Hyd') #Error #Reason elements in the tuple can’t be modifies as tuple is immutable

b = 10 , 20 , 30

print(b) #(10, 20, 30)

print(b * 2) #(10, 20, 30, 10, 20, 30)

c = 40 , 50 , 60,

print(c) #(40, 50, 60)

print(type(c)) #class ‘tuple’
```

2. **Find outputs (Homework)**

```
a = (25)

b = 25,

c = 25

d = (25,)
```

```
print(type(a)) #class ‘int’

print(type(b)) #class ‘tuple’

print(type(c)) #class ‘int’

print(type(d)) #class ‘tuple’

print(a * 4) #100

print(b * 4) #(25, 25, 25, 25)

print(c * 4) #100

print(d * 4) #(25, 25, 25, 25)
```

3. tuple() function demo program (Homework)

```
a = tuple('Hyd')

print(a) #(‘H’, ‘y’, ‘d’)

print(type(a)) #class ‘tuple’

print(len(a)) #3

b = [10 , 20 , 15 , 18]

print(tuple(b)) #(10, 20, 15, 18)

print(tuple(range(5))) #(0, 1, 2, 3, 4)

print(tuple(25)) ‘’’Error - Reason a tuple() argument can’t be a non-sequence i.e. it can’t have integer as an argument’’’
```

4. Find outputs (Homework)

```
a = ()

print(type(a)) #classs ‘tuple’

print(a) #()

print(len(a)) #0
```

```
b = tuple()

print(b) #()

print(len(b)) #0
```

5. **Tricky program**

Find outputs (Homework)

```
a = (10 , 20 , 30)

print(a) # (10, 20, 30)

print(id(a)) #Some random address assigned by the IDE or PVM

a = a * 2 # Valid / Invalid – Valid

print(a) i.e. (10, 20, 30, 10, 20, 30)

print(id(a)) #Some random address assigned by the IDE or PVM
```