6 NOU

Obs find the largest

list = $\{2,5,1,7,9,2,3\}$ max = ist(o) l = len(list)for i in range(1,1): j(list[i] > max): j(list[i] > max): max = list[i]

Print (" 1 ", map)

Ly used to show multiple data
in single variable

fulle= () - ordered

Cannot modify

I an show daplicate value

list = [] - Can modify

tp = (1,2,3,4,5)
print(tp)
print(type(tp))

tp = (1,2,"Arun",4,5)
print(tp)
print(type(tp))

```
tp = (1,2,3,["Arun", "Sourav"], (2.2, 3.4))
print(tp)
print(type(tp))
```

Creating tuple with Single element

```
tp = ("Arun")
print(tp)
print(type(tp))
```

```
Arun
<class 'str'>
```

```
tp = ("Arun",)
print(tp)
print(type(tp))
```

```
('Arun',)
<class 'tuple'>
```

tuple() Constructor

```
tp = tuple(("Arun", "Amit", "Sumit"))
print(tp)
print(type(tp))
```

To modify the tuple first convert the tuple to list and perform the required operation and then again convert list to tuple

```
tp = (1,2,3,4,3,6,7,1,9)
l = list(tp)
l[2]=10
tp=tuple(l)
print(tp)
```

```
tp = (1,2,3,4,3,6,7,1,9)

loge list(tp)

l.remove(6)

tp=tuple(l)

print(tp)
```

Adding 2 tuple

```
tp1 = (1,2,3,4)

tp2 = (5,6,7,8)

tp3 = tp1 + tp2 + (9,)

print(tp3)
```

to find the count to element

```
tp1 = (1,2,3,4,3)
count = tp1.count(3)
ppint(count)
```

Delete

```
tp1 = (1,2,3,4,3)
del tp1
print(tp1)
```

```
tp1 = ("Arun" , "Souray", "Gouray")
for i in tp1:
  print(i)
print("======for loop with range======")
tp1 = ("Arun" , "Souray", "Gouray")
l = len(tp1)
for i in range(l):
   print(tp1[i])
print("======while loop with range=======")
tp1 = ("Arun" , "Souray", "Gouray")
i=0
while (i<len(tp1)):</pre>
   print(tp1[i])
   # i+=1
    i = i+1
```

Write a program to take 5 input from the user using for loop and store it in the tuple

```
tp = ()
for i in range(5):
    num = input("Enter the number")
    tp = tp+(num,)
    print(tp)
```

Dictionary

store the data in key value pair

```
[] -> list
() -> tuple
{} -> dictonary
```

key: value

```
dict = {
    "stdId" : "12345",
    "stdName" : ["Arun", "Amit"],
    "marks" : 80,
}
print(dict)
```

```
dect = {
    1 : 1**3,
    2 : 2**3,
    3 : 3**3,
}
print(dict)
```

```
and = dict(name="Arun", marks=80, country="india")

print(a)
```

```
a ={
    "name" : "Arun",
    "age" : 28 ,
    "state" : "Delhi"
}
ppint(a["name"])
print(a.get("state"))
```

Adding elements in existing dictonary

```
a ={
    "name" : "Arun",
    "age" : 28 ,
    "state" : "Delhi"
}
a.update({"mail Id" : "arunkumarkv29@gmail.com"})
ppint(a)
```

Remove Element

```
a ={
    "name" : "Arun",
    "age" : 28 ,
    "state" : "Delhi"
}
a.pop("age")
print(a)
```

```
a ={
    "name" : "Arun",
    "age" : 28 ,
    "state" : "Delhi"
}
del a["age"]
#@a.pop("age")
print(a)
```

```
a = {
    "name" : "Arun",
    "age" : 28 ,
    "state" : "Delhi"
}
a.clear()
# a.pop("age")
print(a)
```