In [25]:
```python
# reverse a tuple
tuple1 = ("apple","mango", 1,3,4,"mango")
print(tuple1)

rev_tuple = reversed(tuple1)
print(rev_tuple)

tuple2 = tuple(rev_tuple)
print(tuple2)


## Adding element ot the tuple
tup = ( 77, 4, 6, "hello")
n=input("enter the element to ADD")
li=list(tup)
li.append(n)
tup = tuple(li)
print(tup)

## rmoving element from the tuple

tup1=(77,4,6,"hello")
li=list(tup1)
li.remove(4)
tup1=tuple(li)
print(tup1)

## searching an element from the tuple
tup2 = (77,4,6)
n=int (input("enter the element to search"))
if n in tup2:
    print("found")
else:
    print("not found")
```

```
('apple', 'mango', 1, 3, 4, 'mango')
<reversed object at 0x000001FEFE164AC0>
('mango', 4, 3, 1, 'mango', 'apple')
enter the element to ADD2
(77, 4, 6, 'hello', '2')
(77, 6, 'hello')
enter the element to search3
not found
```

In [35]:
```python
## changing a dictionary value.

thisdict = {
  "brand": "Ford",
  "model": "Mustang",
  "year": 1964
}
print(thisdict)
thisdict["year"] = 2018
print(thisdict)

## update a color item.
thisdict = {
  "brand": "Ford",
  "model": "Mustang",
  "year": 1994
}
print(thisdict)
```

```python
thisdict.update({"color": "red"})
print(thisdict)

##remove an item.
thisdict = {
  "brand": "Ford",
  "model": "Mustang",
  "year": 1945
}
print(thisdict)
x = thisdict.pop("model", -1)
print(x)
print(thisdict)

#removing using del key word

thisdict = {
  "brand": "Ford",
  "model": "Mustang",
  "year": 1999
}
print(thisdict)
del thisdict["model"]
print(thisdict)

 #clear the dictionary.
thisdict = {
  "brand": "Ford",
  "model": "Mustang",
  "year": 1964
}
thisdict.clear()
print(thisdict)
```

```
{'brand': 'Ford', 'model': 'Mustang', 'year': 1964}
{'brand': 'Ford', 'model': 'Mustang', 'year': 2018}
{'brand': 'Ford', 'model': 'Mustang', 'year': 1994}
{'brand': 'Ford', 'model': 'Mustang', 'year': 1994, 'color': 'red'}
{'brand': 'Ford', 'model': 'Mustang', 'year': 1945}
Mustang
{'brand': 'Ford', 'year': 1945}
{'brand': 'Ford', 'model': 'Mustang', 'year': 1999}
{'brand': 'Ford', 'year': 1999}
{}
```

In [27]:
```python
#lambda functions
x = lambda a, b : a * b
print(x(5, 6))
```

```
30
```

In [28]:
```python
def myfunc(n):
  return lambda a : a * n

mydoubler = myfunc(2)
print(mydoubler(11))
```

```
22
```

In [29]:
```python
add = lambda a : a + 15
print(add(10))
mul = lambda x, y : x * y
print(mul(12, 4))
```

```
    25
    48
```

In [30]:
```python
def square(n):
    return n*n
my_list = [2,3,4,5,6,7,8,9]
updated_list = map(square, my_list)
print(updated_list)
print(list(updated_list))
```

```
<map object at 0x000001FEFF86DE70>
[4, 9, 16, 25, 36, 49, 64, 81]
```

In [ ]: