ARRAYS

PART 2

ADD, REMOVE, INSERT

What this code will print ?

```
a = [1, 2, 3]
b = a
a[0] = 4

print(b[0])
```

What this code will print ?

```python
a = [1, 2, 3]
b = a
a = [4, 2, 7]

print(b[0])
```

What this code will print ?

```python
a = [1, 2, 3]
b = [a[0], a[1], a[2]]
a[0] = 7

print(b[0])
```

Let's **add** elements !!

```
numbers = [10, 20, 30]
numbers.append(40)
```

*Add 40
At the END of the array*

BEFORE
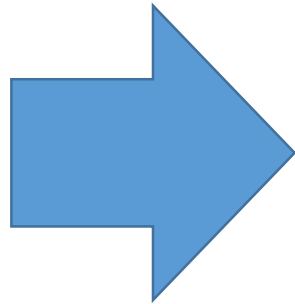
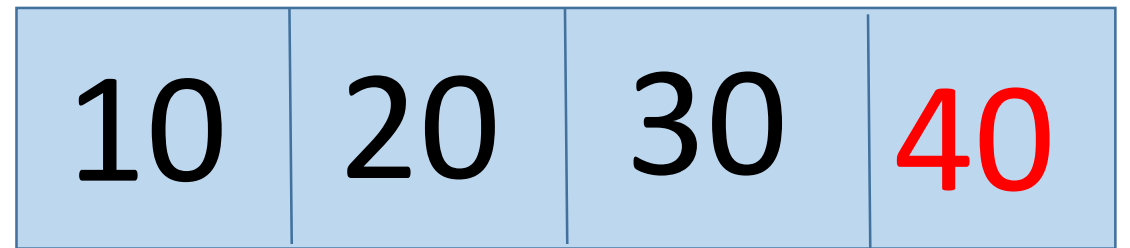| 10	20	30
0	1	2

AFTER

10	20	30	40
0	1	2	3

What this code will print ?

```python
topics = ["ALGO", "HTML", "CSS"]
topics.append("JS")
print(topics)
```

What this code will print ?

```python
text = "RONAN"
arrayText = []
for i in range(len(text)):
    arrayText.append(text[i])
print(arrayText)
```

Let's **insert** elements !!

```
numbers = [10, 20, 30]
numbers.insert(1, 40)
```
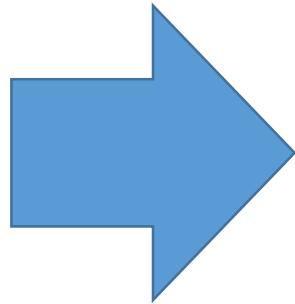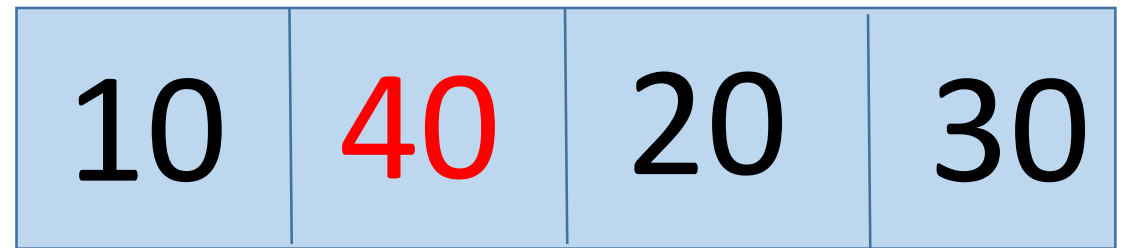
Add 40
At index 1 of the array

BEFORE

10	20	30
0	1	2

AFTER

10	40	20	30
0	1	2	3

What this code will print ?

```python
fruits = ["apple", "banana", "cherry"]
fruits.insert(1, "orange")
print(fruits)
```

What this code will print ?

```python
fruits = ["apple", "banana"]
for index in range(5):
    if index % 2 == 1:
        fruits.insert(index , "papaya " + str(index))

print(fruits)
```

Let's **remove** elements !!

```
numbers = [10, 20, 30]
numbers.pop(1)
```
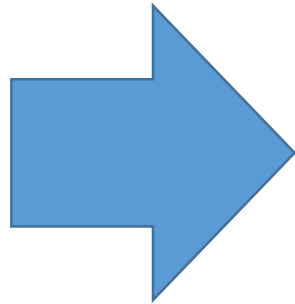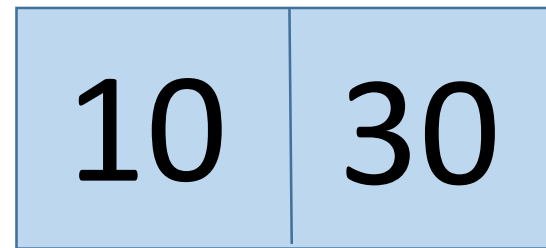
Remove value at index 1

BEFORE

AFTER

10	20	30
0	1	2

10	30
0	1

What this code will print ?

```
names = ["bopha", "romdul", "darika"]
otherNames = names
names.pop(1)
print(otherNames)
```

LET'S SUM IT UP !!

```python
#Define an array
values = [10,11,12]

# Access to values
values[index]

# Insert at index
values.insert(INDEX, VALUE))

# Insert at end
values.append(VALUE)

# Remove value at index
values.pop(INDEX))
```

What this code will print ?

```python
def add10(array):
    array.append(99)
    return array

numbers = [1, 2, 3]
numbers = add10( add10(numbers))

print(numbers)
```

What this code will print ?

```
a = [1, 2, 3]
b = 4
c = [a, b]

print(c)
```

What this code will print ?

```
a = [1, 2, 3]
b = [40,50]
c = [a, b]

print(c[0])
```

QUIZ!

What this code will print ?

```
a = [1, 2, 3]
b = [40,50]
c = [a, b]

print(c[0][1])
```

[1,2,3] [1]

2   It's an interger !

What this code will print ?

```
a = [0, 1, 2, 3, 4, 5]
b = a[2:5]

print(b)
```