

### **HOMEWORK REVIEW**

CORRECTION / DEMO

#### **CHAPTER 1**

# PYTHON to JS

PART 3

**OBJECTS** 

{ key: value, key: value }

Python dictionaries are objects in JavaScript





### An object is declared or dynamically created

**15 MIN** 

#### Code declared

```
v let car = {
    model: '570',
    color: 'white',
    brand: 'Toyota',
};
```

#### Dynamically created

```
let person = {
    name: 'rady',
    age: 26
};
person['province'] = 'BMC';
// or
person.position = "Trainer";
console.log(person);
```





## An object attributes can be accessed either Using [] or .

```
Access object
attributes using
let car = {
    model: '570',
                                        Elements
                                                Console
    color: 'white',
                                      top
    brand: 'Toyota',
                                   Toyota
};
                                                               console.log(car.brand);
console.log(car['brand'])
```

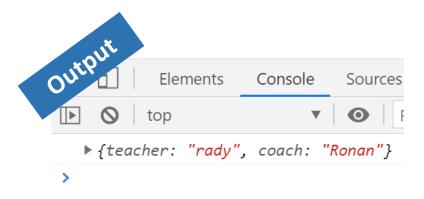
Access object attributes using

```
let car = {
    model: '570',
    color: 'white',
    brand: 'Toyota',
```



### An object can be composed of other objects

```
let students = {
    generation: {
        year: 2021,
        major: {
            mobile: {
                teacher: 'rady',
                coach: 'Ronan'
            },
            web: {
                teacher: 'Him',
                coach: 'Clement'
        school: 'PNC'
console.log(students.generation.major.mobile);
```





### What this code will print?



```
let teachers = {
    name: 'rady',
    age: 20,
};

teachers.position = "trainer";
console.log(teachers);
```

D. undefined





### What this code will print?

```
let teachers = {
    name: 'ronan',
    age: 20,
};
delete teachers.age;
console.log(teachers);
```





### What this code will print?

A. B. C. D. ronan 20 name undefined





### What this code will print?

```
let teachers = {
    name: 'ronan',
    age: 20,
};
teachers.name = "rady";
teachers.age = 26;
console.log(teachers);
```

```
A. B. C. D.

▶ {name: "rady", age: 26} ▶ {name: "ronan", age: 20} ▶ {name: "ronan"} undefined
```



### 2 ways to declare a function

#### Normal function

```
// Declaration
function sum(para1, para2) {
    return para1 + para2;
}

// Call
let result = sum(10, 30);
console.log(result);
```

#### **Arrow function**

```
// Declaration
let sum = (para1, para2) => {
    return para1 + para2;
}

// Call
let result = sum(100, 300);
console.log(result);
```





### What this code will print?

```
let compute = (array) => {
    let sum = 0;
    let x = 0;
    for (let value of array) {
        sum += value;
    }
    x = sum / array.length;
    return x;
}

let arr = [10, 5, 3];
let result = compute(arr);
console.log(result);
```

A. B. C. D.

5 7.75 6 undefined





### What this code will print?

```
let square = (n) => {
    return n * n;
}

let arr = [1, 2, 3, 4];

for (let i in arr) {
    arr[i] = square(arr[i]);
}
console.log(arr);
```

A.

[1, 4, 9, 16]

B.

[2, 4, 6, 8]

C

[1, 2, 3, 4]

D.

undefined





### What this code will print?

```
let square = (n) => {
    return n - 1;
}

let arr = [1, 2, 3, 4];

for (let i in arr) {
    arr[i] = square(arr[i]) * square(arr[i]);
}
console.log(arr);
```

A.

[0, 1, 2, 3]

B.

[2, 4, 6, 8]

C

[0, 1, 4, 9]

D.

undefined





### What this code will print?

```
    let students = {
        name: 'bora',
        age: 18,
        province: 'PHNOM PENH'
    }
    console.log(students['name']);
```

A. B. C. D. bora 18 PHNOM PENH undefined





### What this code will print?

A. B. C. D.
 25 18 40 undefined





### What this code will print?

A. B. C. D.
 25 18 40 undefined





### What this code will print?

A. B. C. D.
 25 18 40 undefined





### What this code will print?

```
let students = [
    { name: 'bora', age: 18, province: 'PHNOM PENH' },
    { name: 'dara', age: 25, province: 'SIEM REAP' },
   { name: 'romdul', age: 40, province: 'KAMPONG CHNANG' },
];
let x = students[0]['age'];
let y = "";
for (let student of students) {
   if (x < student['age']) {</pre>
        x = student['age'];
for (let student of students) {
   if (x == student['age']) {
        y = student['name'];
console.log(y.toUpperCase());
```

A. B. C. D. D. DARA ROMDUL bora undefined

#### **EXERCICE**



# Read the instructions Submit your script.js