

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



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);
```

```
A. ▶ {name: "rady", age: 20, position: "trainer"}
```

```
B. ▶ {name: "rady", age: 20}
```

```
C. ▶ {name: "trainer", age: 20}
```

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