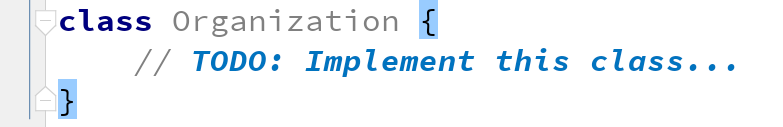
# JS Advanced - Retake Exam

Exam problems for the [“JavaScript Advanced” course @ SoftUni](https://softuni.bg/courses/javascript-advanced). Submit your solutions in the SoftUni judge system at <https://judge.softuni.bg/Contests/Practice/Index/1624#2>

## Problem 3. Organization



You need to implement a structure that will be used by organizations to track their employees. Write a **JavaScript** class Organizationwhich has the following **functionality**:

### Constructor

You need to support the following properties:

* name - string
* employees - array
* budget - number

At **initialization** of the Organization **class**, the **constructor** receives only **2** **parameters** (name and budget).  
The employees property needs to be **empty** by default.

* Thenamepropertyrefers to the **organization’s** **name**.
* Thebudget propertyrefers to the total **budget**.
* For **each department** there is a **portion** of the total budget:
  + The **marketing** department starts with **40%** of the **total budget**.
  + The **finance** department budget starts with **25%** of the **total budget**.
  + The **production** department budget starts with **35%** of **total budget**.

### Accessors

departmentsBudget - **Returns** an **object**, containing the **current budget** of each department:

* **marketing: {**marketingBudget**}**
* **finance: {**financeBudget**}**
* **production: {**productionBudget**}**

Ensure **all properties** have the **correct data types** and the **accessor** **name** is the **same** as **above**.

### Functions

#### **add({employeeName}, {department} , {salary})**

Receive **3** parameters: employeeName(string), department(string) and salary (number).

If the organization has **enough** **budget** in the requested **department** to pay the **employee's** desired salary, you should create an **object** for the current employee and store it in the employees array, with the following properties:

* employeeName
* department
* salary

You should also **descrease** the corresponding department’s budget.

Then you should return a **string**, in the following format:

"Welcome to the {department} team Mr./Mrs. {employeeName}."

##### **Validations**

* If the requested department cannot afford the employee salary, the **function** shouldreturn a **string**:   
  "The salary that {departmentName} department can offer to you Mr./Mrs. {employeeName} is ${departmentBudget}."

#### **employeeExists({employeeName})**

Receive **1** parameter: employeeName(string). Checks if an employee with the given name is present in the organization.

* If there is an employee with the given name, the function should return a string in the following format:   
  "Mr./Mrs. {employeeName} is part of the {employeeDepartment} department."
* If the employee is **NOT** part of the organization, the function should return a string in the following format: "Mr./Mrs. {employeeName} is not working in {organizationName}."

#### **leaveOrganization({employeeName})**

Receive **1** parameter: employeeName(string).

You should **remove** the **employee** from his corresponding **department** and **increase** the department budget with its **salary**. After successfully removing the employee, the function should return a string in the following format:   
"It was pleasure for {organizationName} to work with Mr./Mrs. {employeeName}."

If the employee is **NOT** part of the organization, the function should return a string in the following format:   
"Mr./Mrs. {employeeName} is not working in {organizationName}."

#### **status()**

This function represents the organization’s "database". Prints information about each department. The information should be presented in the following format:

"{organizationName.toUpperCase()} DEPARTMENTS:

Marketing | Employees: {marketingEmployeesCount}: {employee1Name}, {employee2Name} | Remaining Budget: {marketingRemainingBudget}

Finance | Employees: {financeEmployeesCount}: {employee1Name}, {employee2Name} | Remaining Budget: {financeRemainingBudget}

Production | Employees: {productionEmployeesCount}: {employee1Name}, {employee2Name} | Remaining Budget: {productionRemainingBudget}

The **employees**' **names** in each department, should be **sorted** by their **salary** in **descending** order.

Note that the **new line** ("**\n**") must be in the **beginning of each department**. For example:

"\nMarketing | Employees: {marketingEmployeesCount}: {employee1Name}, {employee2Name} | Remaining Budget: {marketingRemainingBudget}"

### Submission

Submit only the **Organization** **class** as **JavaScript** **code**.

### Examples

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| **Input** |
| let organization = new Organization('SoftUni', 20000);  console.log(organization.add('Peter', 'marketing', 1200));  console.log(organization.add('Robert', 'production', 2000));  console.log(organization.leaveOrganization('Peter')); |

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| **Output** |
| Welcome to the marketing team Mr./Mrs. Peter.  Welcome to the production team Mr./Mrs. Robert.  It was pleasure for SoftUni to work with Mr./Mrs. Peter. |

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| **Input** |
| let organization = new Organization('SBTech', 1000);  console.log(organization.add('Peter', 'marketing', 800));  console.log(organization.add('Robert', 'production', 2000));  console.log(organization.add('Peter', 'production', 2000)); |

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| **Output** |
| The salary that marketing department can offer to you Mr./Mrs. Peter is $400.  The salary that production department can offer to you Mr./Mrs. Robert is $350.  The salary that production department can offer to you Mr./Mrs. Peter is $350. |