Homework-3

Deadline: 29.12.2022/23:00

- **Please write a java code for this assignment.**
- **Upload your java source code to Mic. Teams.**

- Create a two-dimensional array that holds the workers' weekly working hours. Each row records an employee's seven-day work hours with seven columns. Randomly assign working hours between 1 and 9 for 10 workers.

```
int[][] workHours = createWorkersArray();
```

- Write a method that displays the workers' weekly working hours as below.

```
displayArray(workHours);
```

	Su	M	T	W	Th	F	Sa
Employee 0	2	4	3	4	5	8	8
Employee 1	7	3	4	3	3	4	4
Employee 2	3	3	4	3	3	2	2
	9	3	4	7	3	4	1
.	3	5	4	3	6	3	8
.	3	4	4	6	3	4	4
.	3	7	4	8	3	8	4
	6	3	5	9	2	7	9
	3	4	4	6	3	4	4
	3	7	4	8	3	8	4
Employee10	6	3	5	9	2	7	9

- Calculate the average of the workers' weekly working hours for each workers. Create an array that holds the average of the workers' weekly working hours.

```
double[] averageHours = calculateAvg(workHours);
```

- Write a method that displays the workers' weekly average working time.

```
displayAvg(averageHours);
```

- Create an array that holds the salary of the workers. The salary for each worker is 2500. However, for workers working more than 35 hours, add 100 lira per hour to the salary.

```
double[] salary = createSalary(workHours)
```

- Write a method that displays the workers' salary.

```
displaySalary(salary)
```

- Your main method should be as below.

```java
public static void main(String[] args) {
    // Declare and create an weekly working hours array
    int[][] workHours = createWorkersArray();

    // Display the two dimensional array
    System.out.println("The workers' weekly working hours are:");
    displayArray(workHours);

    // Declare and create the average hours for each workers
    double[] averageHours = calculateAvg(workHours);
    // Display the average hours for each workers
    displayAvg(averageHours);

    // Display the Employee with the max. average working time
    System.out.println("Employee with the max. average working time: " + maxAvg(averageHours))

    // Finally, declare and create workers' salary.
    double[] salary = createSalary(workHours);
    // Display the workers' salary.
    displaySalary(salary);

}
```