

## In the Name of Allah

**Project Title:** Prj 25

**Programming Software:** Visual Studio Code, Version 1.73.1

**Programming language:** JavaScript

### **Project Description :**

Let's go back to Mark and John comparing their BMIs! This time, let's use objects to implement the calculations! Remember:  $BMI = mass / height ** 2 = mass / (height * height)$  (mass in kg and height in meter)

Your tasks:

1. For each of them, create an object with properties for their full name, mass, and height (Mark Miller and John Smith)
2. Create a 'calcBMI' method on each object to calculate the BMI (the same method on both objects). Store the BMI value to a property, and also return it from the method
3. Log to the console who has the higher BMI, together with the full name and the respective BMI. Example: "John's BMI (28.3) is higher than Mark's (23.9)!"

Test data: Marks weights 78 kg and is 1.69 m tall. John weights 92 kg and is 1.95 m tall

## Project Solution :

```
const mark = {
  fullName: 'Mark Miller',
  mass: 78, // in kg
  height: 1.69, // in meter
  calcBMI: function () {
    this.BMI = this.mass / this.height ** 2;
    return this.BMI;
  },
};

const john = {
  fullName: 'John Smith',
  mass: 92,
  height: 1.95,
  calcBMI: function () {
    this.BMI = this.mass / this.height ** 2;
    return this.BMI;
  },
};

mark.calcBMI();
john.calcBMI();
if (mark.BMI > john.BMI)
  console.log(
    `${mark.fullName}'s BMI (${mark.BMI}) is higher than ${john.fullName}`
  );
else
  console.log(
    `${john.fullName}'s BMI (${john.BMI}) is higher than ${mark.fullName}`
  );
```