In the Name of Allah

Project Title: Prj 20

Programming Software: Visual Studio Code, Version 1.73.1

Programming language: JavaScript

Project Description:

Mark and John are trying to compare their BMI (Body Mass Index), which is calculated using the formula: BMI = mass / height ** 2 = mass / (height * height) (mass in kg and height in meters).

- 1. Store Mark's and John's mass and height in variables
- 2. Calculate both their BMIs using the formula
- 3. Create a Boolean variable 'markHigherBMI' containing information about whether Mark has a higher BMI than John.
- § Data 1: Marks weights 78 kg and is 1.69 m tall. John weighs 92 kg and is 1.95m tall.
- § Data 2: Marks weights 95 kg and is 1.88 m tall. John weighs 85 kg and is 1.76m tall.

Project Solution:

```
const mark = {
  Weight1: 78,
 Weight2: 95,
 Height1: 1.69,
 Height2: 1.88,
const john = {
  Weight1: 92,
 Weight2: 85,
 Height1: 1.95,
  Height2: 1.76,
const BMI = (mass, height) => mass / height ** 2;
const marksHigherBMI1 =
  BMI(mark.Weight1, mark.Height1) > BMI(john.Weight1, john.Height1);
const marksHigherBMI2 =
  BMI(mark.Weight2, mark.Height2) > BMI(john.Weight2, john.Height2);
if (marksHigherBMI1) {
 console.log(`Based on Data 1 , Mark's BMI is Higher than John's`);
} else console.log(`Based on Data 1 , Johns's BMI is Higher than Mark's`);
if (marksHigherBMI2) {
  console.log(`Based on Data 2 , Mark's BMI is Higher than John's`);
} else console.log(`Based on Data 2 , Johns's BMI is Higher than Mark's`);
```

