WORKSHEET 10 – OBJECTS

1. Create a car object using either the literal notation or the constructor notation. This car object should be made up from the following properties:
    - Make
    - Model
    - Year
    - Colour
    - Started

    And the following methods:

    - Start()
    - Drive()
    - Brake()
    - Stop()

2. Create a page which loads all the car details on screen from the created object.

Car Object

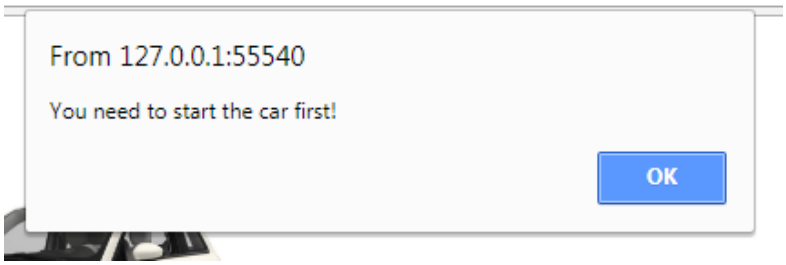
Make:	**Fiat**
Model:	**Cinquecento**
Colour:	**White**
Year:	**2017**

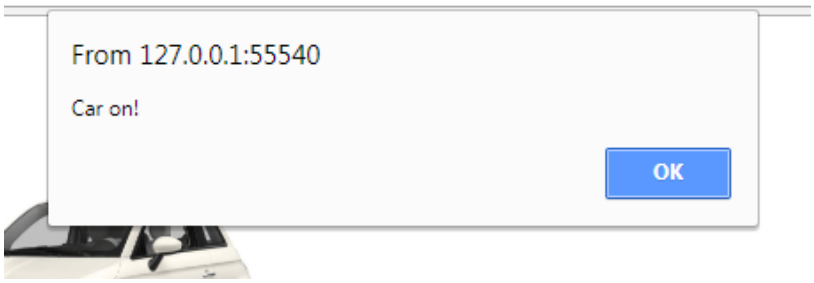
3. 4 buttons need to be set up to allow for all car methods to be executed. All methods need to check whether the car has started or not for the functionality to occur. When the Start() method is invoked, the *Started* property should be assigned to *true* while if the Stop() method is invoked, the *Started* property should be assigned to *false*.

Make: Fiat
Model: Cinquecento
Colour: White
Year: 2017

Start | Drive | Brake | Stop

4. The necessary messages should be shown on screen depending on which button the user clicked on and if the car's *started* property was set to true or false:





5. Access Moodle to find 4 audio files, one for each button. Ensure that the necessary code is used for both the HTML file as well as for the JavaScript file.

6. You might notice a problem if a different button is clicked while an audio clip is still playing. To avoid this problem, create a function *stopAllAudio()* and an array *allAudio* which stores all audio instances.

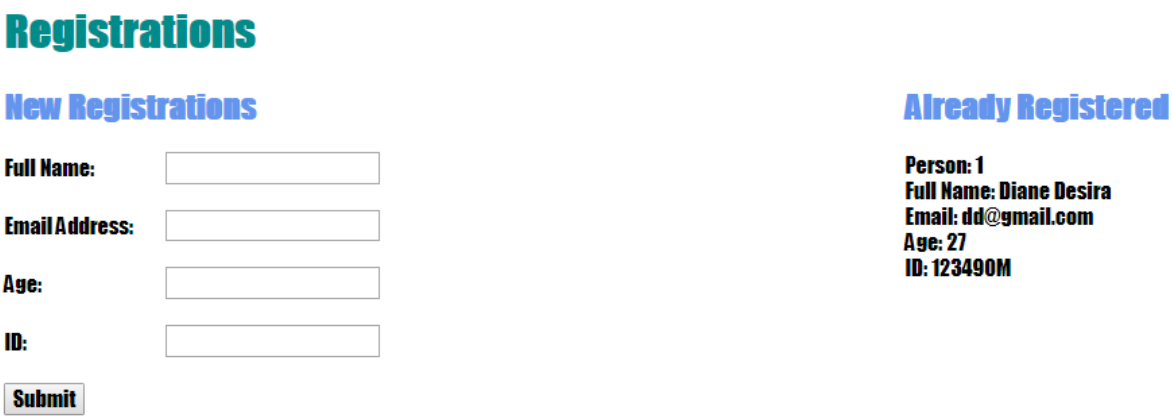
   The *stopAllAudio()* function needs to go through all audio sources and stop them. You need to use a loop to go through all audio. Since the stop function is used with Jquery and is not reliable, you would need to perform the following operations instead:

```
audioSrc.pause();
audioSrc.currentTime = 0;
```

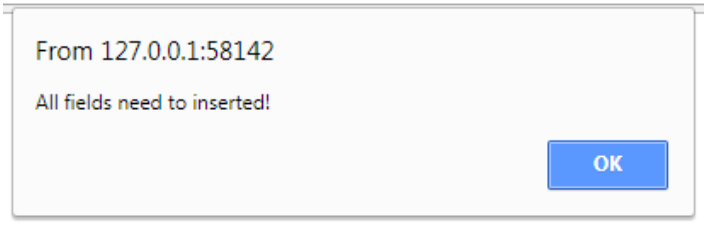
7. Create a person object using the parameterised constructor notation. This person object should be made up of the following properties:
    - Full Name
    - Email Address
    - Age
    - ID

8. There should be an array made up of person objects, persons, so that all person instances are saved in this array.

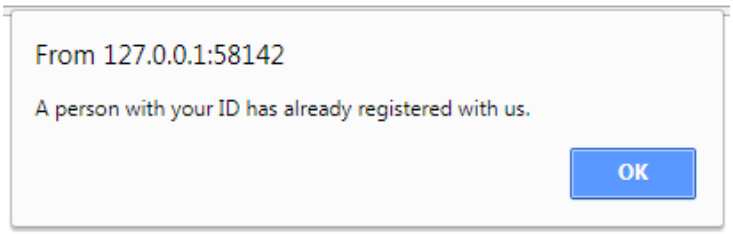
9. A page should be created to allow users to input person details to register as well as to view all persons which have already been registered:



10. Provide input fields so that users can input new person details. Once the submit button is pressed, a function needs to be executed to perform the following tasks:
    a. All text field values should be saved in variables and all text fields should be cleared
    b. A check needs to be performed to ensure that all details have been inserted



    c. The inserted ID needs to be checked with all person instances to ensure that the ID is unique
    d. If a person with the same ID has already registered, the following alert should be displayed and the function should terminate



e. Otherwise, the function should continue with the following tasks:
   i. A new person instance is created
   ii. The new instance is saved in the persons array
   iii. The new person details are shown on screen (along with the other persons' details – if any)