

## CSSE3101/ITSE302 – ADVANCED WEB TECHNOLOGIES STUDENT CENTERED ACTIVITY 2– JAVASCRIPT ES6

1. Design the page as shown below:

Car Registration	
Car Number:	12700
Brand:	Nissan <b>∨</b>
Model:	Sentra <b>✓</b>
Year:	2020
Price:	6000
Car Information  Car Number Price: 12700	
Brand: Nissan	
Model: Sentra	
Year: 2020	
Price: 6000	
Total Price: 6180	

- 2. Use arrow function to implement the following:
  - a. showModels()
    - i. Function Description When the user selects a brand (Toyota, Nissan, or Honda) from the dropdown menu, the "Model" dropdown menu should dynamically populate with the models available for that brand. For example, if the user selects "Toyota," the "Model" dropdown should display "Corolla" and "Camry" as options.

Consider the following in the implementation:

- Store the following models in a separate array for each brand:
  - Toyota Corolla, Camry
  - Nissan Sentra, Tida
  - Honda Civic, Accord, CR-V
- Use the array map() function to add the new options in the select (dropdown box) for models.
- ii. Parameter brand
- iii. Function invocation when the user selects a brand



- b. computeTotalPrice()
  - i. Function Description Computes the following and returns the Total Price:
    - Find Tax:
      - a. if Year is 2020 and above, tax = 3% of the Price
      - b. if Year is below 2020, tax = 1.5% of the Price
    - Find and return the Total Price

Total Price = Price + Tax

Note: Use the ternary operator to implement the above requirements

- ii. Parameter price and year
- iii. Function Invocation none
- c. saveCar()
  - i. Function Description Do the following:
    - Get the following values:
      - ✓ Car Number (from the input field)
      - ✓ Selected Brand (from the dropdown)
      - ✓ Selected Model (from the dropdown)
      - ✓ Price (from the input field)
      - ✓ Year (from the input field)
    - Display all the inputs in the "Car Information" section as shown in the design, including the Total Price. Invoke the above computeTotalPrice() function and get the Total Price.
  - ii. Parameter none
  - iii. Function invocation when the user clicks the Save button