



CSIT884 Web Development

Week 10 Exercise – JSON & DOM

Please submit the **zip file containing the source code files** to the entry named “Week 10 Exercise – JSON & DOM” on Moodle before **19:00 Sunday, Week 10**.

Q1. This is the content of a JSON file which contains several errors.

```
{
  "firstName": "John",
  "lastName": "Smith",
  [
    {
      "code": "MATH101",
      "title": "Algebra"
    },
    {
      "code": "CSIT122",
      "title": "C programming"
    }
  ],
  age: 23
}
```

Your task is to identify these errors and correct them. Save the correct JSON code into a file called **Question1.json**.

Q2. Write a JSON document called **Question2.json** that represents the following student record:

SMITH, John - student id 1231234			
Subject	Credit Point	Mark	Grade
MATH101	4	85	A
ECON111	5	70	B
CS100	5	80	A
LAW121	6	75	B

Q3. Create a web page `Question3.html` that looks like the following:

Subject code:

Subject title:

Subject credit point:

Core subject: ☐

```
{
  "code": "MATH101",
  "title": "Abstract Algebra",
  "cp": 4,
  "coreFlag": false
}
```

When the user clicks the button, read the information entered by the user and construct a subject object. Construct the JSON of the object and display it in the text area.

The program does not need to handle user input error.

Q4. Create a web page `Question4.html` that looks like the following:

```
{
  "code": "MATH101",
  "title": "Abstract Algebra",
  "cp": 4,
  "coreFlag": false
}
```

Subject code:

Subject title:

Subject credit point:

Core subject: ☐

Copy and paste the JSON from Q3 into the text area. When the button is clicked, read the JSON in the text area and construct a subject object. Extract the information from the subject object and display them in the text fields and the checkbox.

The program does not need to handle user input error.

Q5. Create a web page `Question5.html` that contains 3 text fields for the user to enter a book title, a product code, and a quantity, and a button. After the button is clicked, the information input by user is added into an unordered list, and the total number of books ordered is displayed.

Enter book title:

Enter product code:

Enter quantity:

Add to order

- JAP123: Introduction to Java Programming x 5
- C987: C++ for dummies x 2
- COOK654: Spicy recipes x 3

Total number of books ordered: 10