**Assignment Title: Creating and Writing Data to a File in Groovy**

Objective: The objective of this assignment is to provide students with hands-on experience in creating and writing data to a file using Groovy. Students will learn how to use Groovy's built-in File I/O capabilities to create and write data to a file.

Instructions:

1. Introduce Groovy and explain why it is a good language for working with files.
2. Provide a sample data set that students will use to write to a file.
3. Ask students to write a Groovy script that creates a file and writes the data to it.
4. Provide a set of specific requirements for the script, such as the ability to handle file creation errors and write the data in a specific format.
5. Encourage students to test their scripts with different data sets to ensure that they are flexible and can handle various scenarios.
6. Ask students to document their code and explain how it works.
7. Provide a set of sample data sets and ask students to create and write them to a file using their Groovy scripts.
8. Finally, ask students to provide a reflection on what they learned and how they can apply their new knowledge in real-world projects.

Sample Data Set:

[ ['John Doe', 'johndoe@example.com', 'Male', '31'],

['Jane Doe', 'janedoe@example.com', 'Female', '28'],

['Bob Smith', 'bobsmith@example.com', 'Male', '45'],

['Sara Johnson', 'sarajohnson@example.com', 'Female', '22']

]

Requirements:

1. The script should be able to create a file with a specific name and extension (e.g., "data.txt").
2. The script should be able to write the data set to the file in a specific format, such as CSV or JSON.
3. The script should be able to handle file creation errors and display an error message if the file cannot be created.
4. The script should be well-documented and easy to understand.

Sample Output (for CSV format):

Name, Email, Gender, Age

John Doe, johndoe@example.com, Male, 31

Jane Doe, janedoe@example.com, Female, 28

Bob Smith, bobsmith@example.com, Male, 45

Sara Johnson, sarajohnson@example.com, Female, 22