

Objective: The objective of this assignment is to test the understanding of the "this" keyword in object-oriented programming languages like JavaScript.

Instructions:

Write a program that demonstrates the use of "this" keyword in JavaScript.

- Create a class named "Person" with the following properties:
 - a. Name: string
 - b. Age: number
 - c. Gender: string
 - d. Nationality: string
- Create a method named "introduce" in the Person class that returns a string containing the person's name, age, gender, and nationality.
- Create three instances of the Person class and assign values to their properties.
- Call the introduce method on each instance and print the returned string to the console.
- Create a subclass named "Student" that inherits from the Person class.
- Add a new property to the Student class named "subject" of type string.
- Create a method named "study" in the Student class that returns a string containing the subject that the student is studying.
- Create an instance of the Student class and assign values to its properties.
- Call the introduce method on the Student instance and print the returned string to the console.
- Call the study method on the Student instance and print the returned string to the console.

Note: In order to access the properties of the current object within a class method, you should use the "this" keyword.

Example output:

Person instance 1: My name is John, I am 25 years old, I am male, and I am American.

Person instance 2: My name is Jane, I am 30 years old, I am female, and I am Canadian.

Person instance 3: My name is Bob, I am 20 years old, I am male, and I am Australian.

Student instance 1: My name is Sarah, I am 18 years old, I am female, and I am British. I am studying Computer Science.