**Task 9.**

**[This keyword + class + constructor + inheritance + oops + object]**

***Problem Statement:***

**You are tasked with implementing a simple banking system using JavaScript classes. Your system should have the following features:**

1. ***BankAccount Class:***

**This class should represent a generic bank account. It should have the following properties and methods:**

* + ***Properties:***
    - **owner: The owner's name.**
    - **balance: The current balance in the account.**
  + ***Methods:***
    - **deposit(amount): Adds the specified amount to the account balance.**
    - **withdraw(amount): Subtracts the specified amount from the account balance. Make sure to check if the withdrawal amount is not greater than the current balance.**

1. **SavingsAccount Class (Inheritance):**

**This class should inherit from the BankAccount class and have the following additional features:**

* + ***Properties:***
    - **interestRate: The annual interest rate for the savings account.**
  + *Methods:*
    - **addInterest(): Adds interest to the account balance based on the annual interest rate.**

1. **CheckingAccount Class (Inheritance)**:

**This class should also inherit from the BankAccount class and have the following additional features:**

* + ***Properties:***
    - **overdraft: The overdraft limit for the checking account.**
  + ***Methods:***
    - **withdraw(amount): Overrides the withdraw method of the BankAccount class to allow for overdraft protection. If the withdrawal amount exceeds the current balance but is within the overdraft limit, the withdrawal should be allowed, and the balance should become negative.**

***Task:***

1. **Implement the BankAccount, SavingsAccount, and CheckingAccount classes as described above.**
2. **Create instances of each class and demonstrate the functionality of their methods by performing various deposit, withdrawal, and interest addition operations.**
3. **Test the inheritance relationship by using the instanceof operator to verify that instances of SavingsAccount and CheckingAccount are also instances of BankAccount.**

***Bonus:***

**Implement additional functionality, such as displaying account information, handling edge cases, or adding more types of bank accounts.**

***Submission Guidelines:***

**Submit your JavaScript code along with a brief explanation of your implementation strategy and any additional features you added.**