1. BankAccount class

a. Create a BankAccount base class

b. In **BankAccount base class**, create these methods. You have to make them work!

- **Properties**
  - AccountNumber (text)
    - Add validation to make this to be of length = 6
  - Name (text)
  - Balance (decimal)
    - Add validation to make sure this cannot be negative
  - DateCreated (date)
    - Add validation to make sure this cannot be a future date

- **Constructors**
  - Create a constructor without any parameters
    - Set DateCreated to the current date
  - Create a constructor with 3 parameters
    - Set DateCreated to the current date

- **DisplayAccountInfo()**
  - This method will display Account Number, Name and Balance

- **Deposit()**
  - Takes 1 input parameter "amount" of type decimal
  - Adds amount to Balance
  - Write Balance to Console

- **Withdraw()**
  - Takes 1 input parameter "amount" of type decimal
    - If Balance is > amount, then subtract amount from Balance
    - Else write an error to console
  - Write Balance to Console

- **CalculateInterest()**
  - Write to Console "This method will calculate Interest"

SavingsAccount – Derived class from BankAccount base class

- **Properties**
  - Balance (decimal)
    - Add validation to make sure this cannot be less than 2500

- **Constructors**
  - Create a constructor without any parameters
    - Call the base class constructor
  - Create a constructor with 3 parameters
    - Call the base class constructor

- **CalculateInterest()**
  - Calculate 5% interest per year and addthis interest to Balance
  - Write to Console "Added interest and updated Balance"

- **Withdraw() method**
  - If Balance is < 2500, write to Console an error message "Insufficient balance"

- Else call the Withdraw method of the base class

CheckingAccount – Derived class

- **Properties**
  - Balance (decimal)
    - Add validation to make sure this cannot be less than 500
- **Constructors**
  - Create a constructor without any parameters
    - Call the base class constructor
  - Create a constructor with 3 parameters
    - Call the base class constructor
- **CalculateInterest()**
  - Calculate 0.75% interest per year and add this interest to Balance
  - Write to Console "Added interest and updated Balance"
- **Withdraw() method**
  - If Balance is < 500, write to Console an error message "Insufficient balance"
  - Else call the Withdraw method of the base class