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class BankAccount:
    def __init__(self, account_number, account_holder_name, initial_balance=0):
        self.__account_number = account_number
        self.__account_holder_name = account_holder_name
        self.__account_balance = initial_balance

    def deposit(self, amount):
        if amount > 0:
            self.__account_balance += amount
            return f"Deposited ${amount}. New balance: ${self.__account_balance}"
        else:
            return "Invalid deposit amount. Please enter a positive amount."

    def withdraw(self, amount):
        if 0 < amount <= self.__account_balance:
            self.__account_balance -= amount
            return f"Withdrew ${amount}. New balance: ${self.__account_balance}"
        elif amount > self.__account_balance:
            return "Insufficient funds for withdrawal."
        else:
            return "Invalid withdrawal amount. Please enter a positive amount."

    def display_balance(self):
        return f"Account balance for {self.__account_holder_name} (Account  
#{self.__account_number}): ${self.__account_balance}"

# Example usage:
if __name__ == "__main__":
    account1 = BankAccount("1234567", "Ash", 1000)

    print(account1.display_balance())
    print(account1.deposit(500))
    print(account1.withdraw(200))
    print(account1.display_balance())
    print(account1.withdraw(1500)) # This should display "Insufficient funds for  
withdrawal."

```