```
import getpass

# Function to display the main menu
def display_main_menu():
    print("Main Menu:")
    print("1. Check balance")
    print("2. Withdraw money")
    print("3. Deposit money")
    print("4. Change PIN")
    print("5. Exit")

# Welcome screen
print("Welcome to the ATM Simulator!")
print("1. Setup and Use ATM")
choice = input("Enter your choice: ")

if choice == "1":
    # Player sets up the current balance
    opening_balance = float(input("Enter your current balance: "))
    pin = getpass.getpass("Set your PIN (4 digits): ")
    while len(pin) != 4 or not pin.isdigit():
        print("Invalid PIN! Please enter a 4-digit numeric PIN.")
        pin = getpass.getpass("Set your PIN (4 digits): ")

    # User interaction phase
    attempts = 3
    while attempts > 0:
        entered_pin = getpass.getpass("Enter your PIN: ")
        if entered_pin == pin:
            # Main menu
            while True:
                display_main_menu()
                option = input("Enter your choice: ")

                if option == "1":
                    print("Current balance:", opening_balance)
                elif option == "2":
                    print("Withdrawal Menu:")
                    print("1. £10")
                    print("2. £20")
                    print("3. £40")
                    print("4. £60")
                    print("5. £80")
                    print("6. £100")
                    print("7. Other Amount")
                    print("8. Return to Main Menu")
                    withdrawal_option = input("Enter your choice: ")
                    if withdrawal_option == "7":
                        custom_amount = float(input("Enter custom amount (in £10 increments): "))
                        if custom_amount % 10 == 0:  # Check if the amount is a multiple of £10
                            withdrawal_amount = custom_amount
                        else:
                            print("Withdrawal amount must be a multiple of £10.")
                            continue  # Return to the Withdrawal Menu
                    elif withdrawal_option == "8":
                        continue  # Return to the Main Menu
                    else:
                        withdrawal_amount = [10, 20, 40, 60, 80, 100][int(withdrawal_option) - 1]

                    if withdrawal_amount <= opening_balance:
                        opening_balance -= withdrawal_amount
                        print("Withdrawal successful. Current balance:", opening_balance)
                    else:
                        print("Insufficient funds for this transaction!")
                elif option == "3":
                    print("Deposit Menu:")
                    print("1. Deposit money")
                    print("2. Return to Main Menu")
                    print("3. Return ATM card")
                    deposit_option = input("Enter your choice: ")
                    if deposit_option == "1":
                        amount = float(input("Enter amount to deposit: "))
                        opening_balance += amount
                        print("Deposit successful. Current balance:", opening_balance)
                    elif deposit_option == "2":
                        continue  # Return to the Main Menu
                    elif deposit_option == "3":
                        print("ATM card returned.")
                        break  # Exit the program
                    else:
                        print("Invalid option! Please try again.")
```

```
                elif option == "4":
                    new_pin = getpass.getpass("Enter new PIN (4 digits): ")
                    while len(new_pin) != 4 or not new_pin.isdigit():
                        print("Invalid PIN! Please enter a 4-digit numeric PIN.")
                        new_pin = getpass.getpass("Enter new PIN (4 digits): ")
                    pin = new_pin
                    print("PIN changed successfully!")
                elif option == "5":
                    print("Goodbye! Thank you for using the ATM Simulator.")
                    break  # Exit the program
                else:
                    print("Invalid option! Please try again.")
            break
        else:
            attempts -= 1
            if attempts > 0:
                print(f"Incorrect PIN. {attempts} attempts remaining.")
            else:
                print("You have exhausted your attempts. Please contact your bank.")
else:
    print("Invalid choice!")
```

```
Welcome to the ATM Simulator!
1. Setup and Use ATM
Enter your choice: 1
Enter your current balance: 1000
Set your PIN (4 digits): ··········
Enter your PIN: ··········
Main Menu:
1. Check balance
2. Withdraw money
3. Deposit money
4. Change PIN
5. Exit
Enter your choice: 1
Current balance: 1000.0
Main Menu:
1. Check balance
2. Withdraw money
3. Deposit money
4. Change PIN
5. Exit
Enter your choice: 3
Deposit Menu:
1. Deposit money
2. Return to Main Menu
3. Return ATM card
Enter your choice: 1
Enter amount to deposit: 500
Deposit successful. Current balance: 1500.0
Main Menu:
1. Check balance
2. Withdraw money
3. Deposit money
4. Change PIN
5. Exit
Enter your choice: 1
Current balance: 1500.0
Main Menu:
1. Check balance
2. Withdraw money
3. Deposit money
4. Change PIN
5. Exit
Enter your choice: 5
Goodbye! Thank you for using the ATM Simulator.
```