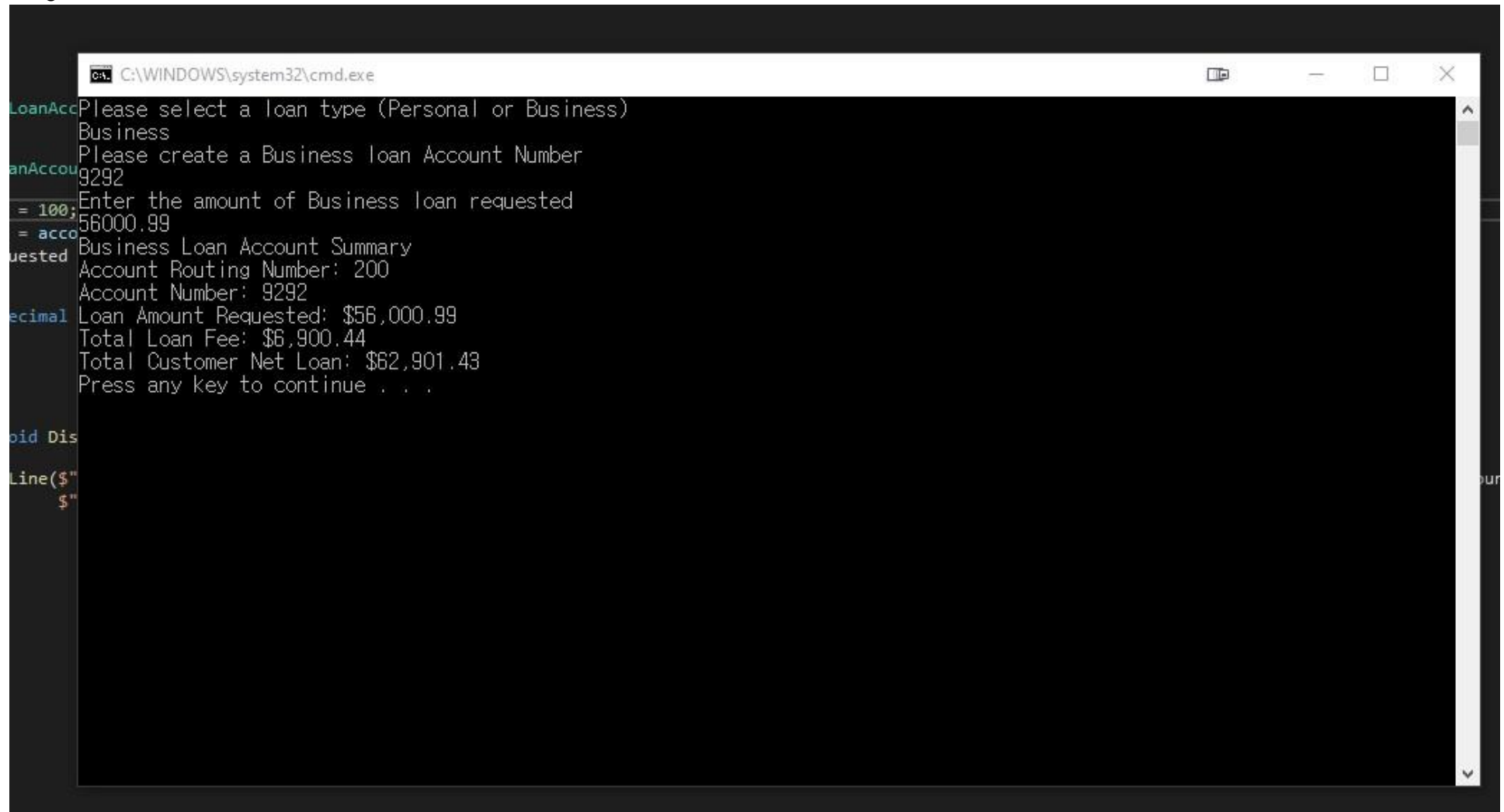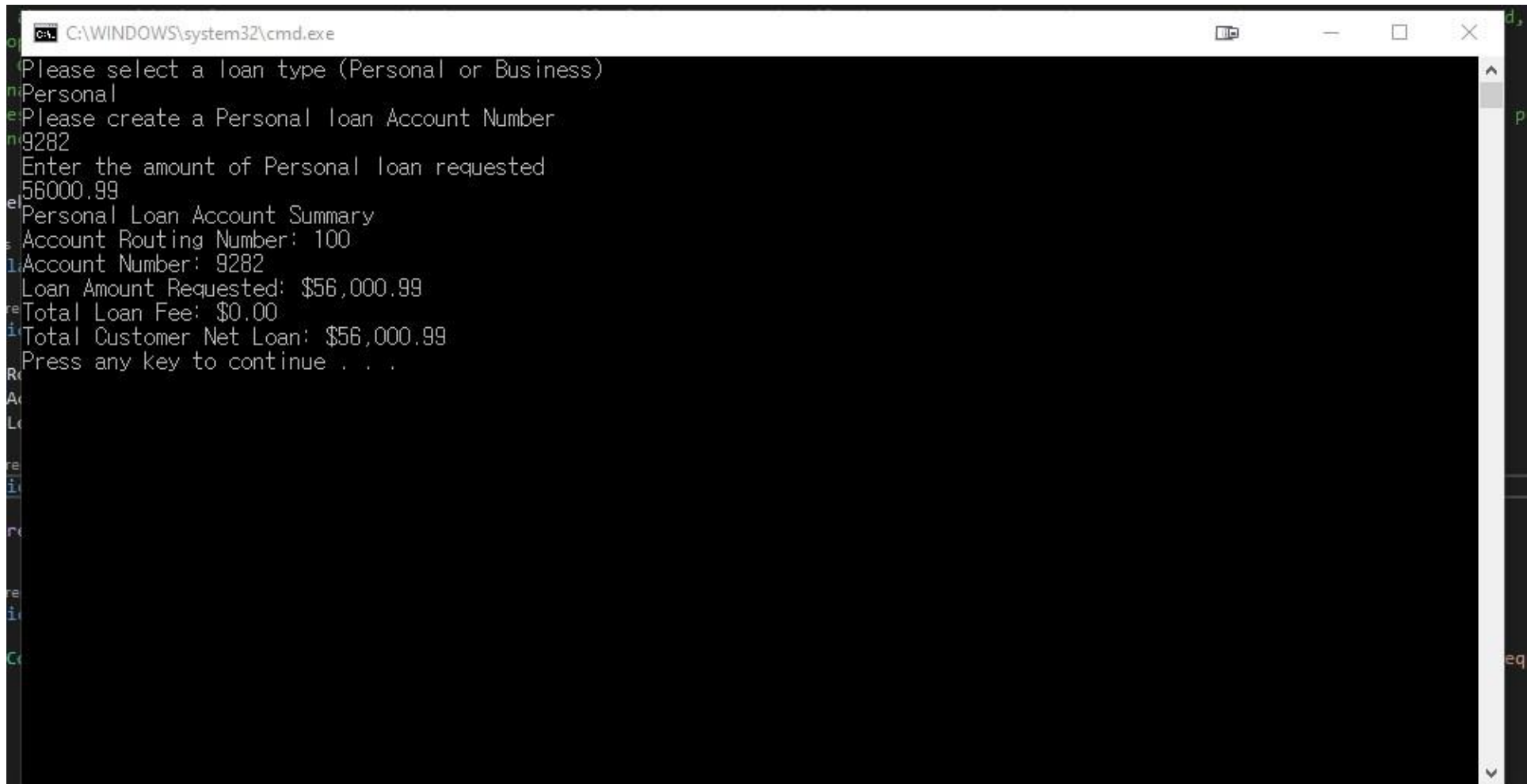Program console

```
C:\WINDOWS\system32\cmd.exe

LoanAcc Please select a loan type (Personal or Business)
        Business
        Please create a Business loan Account Number
anAccou 9292
        Enter the amount of Business loan requested
= 100;  56000.99
= acco  Business Loan Account Summary
uested  Account Routing Number: 200
        Account Number: 9292
ecimal  Loan Amount Requested: $56,000.99
        Total Loan Fee: $6,900.44
        Total Customer Net Loan: $62,901.43
        Press any key to continue . . .


oid Dis

Line($"
     $"
```

```
C:\WINDOWS\system32\cmd.exe

Please select a loan type (Personal or Business)
Personal
Please create a Personal loan Account Number
9282
Enter the amount of Personal loan requested
56000.99
Personal Loan Account Summary
Account Routing Number: 100
Account Number: 9282
Loan Amount Requested: $56,000.99
Total Loan Fee: $0.00
Total Customer Net Loan: $56,000.99
Press any key to continue . . .
```

```
18
19  namespace Week6_HW4
20  {
            0 references
21      class Program
22      {
            0 references
23          static void Main(string[] args)
24          {
                Console.WriteLine("Please select a loan type (Personal or Business)");
                string loanType = Console.ReadLine();
                Console.WriteLine($"Please create a {loanType} loan Account Number");
                int accountNumber = Convert.ToInt32(Console.ReadLine());
                Console.WriteLine($"Enter the amount of {loanType} loan requested");
                decimal loanAmount = Convert.ToDecimal(Console.ReadLine());

                if (loanType == "Personal")
                {
                    PersonalLoanAccount myPersonalLoanAccount = new PersonalLoanAccount(accountNumber, loanAmount);
                    decimal loanProcessingFee =  myPersonalLoanAccount.CalLoanFees(loanAmount);
                    myPersonalLoanAccount.DisplayAccountSummary();
                }
                else
                {
                    BusinessLoanAccount myBusinessLoanAccount = new BusinessLoanAccount(accountNumber, loanAmount);
                    decimal loanProcessingFee = myBusinessLoanAccount.CalLoanFees(loanAmount);
                    myBusinessLoanAccount.DisplayAccountSummary();
                }
            }
        }
47  }
```

```
12  [ }
13
14  □ namespace Week6_HW4
15  {
        2 references
16  □   public abstract class LoanAccount
17      {
            4 references
18          public int AccountNumber { get; set; }
            8 references
19          public decimal LoanAmountRequested { get; set; }
            4 references
20          public decimal TotalLoanFee { get; set; }
            2 references
21          public decimal NetLoanAmount { get; set; }
            4 references
22          public int RoutingNumber { get; set; }
23
            4 references
24          public abstract decimal CalLoanFees(decimal loanAmount);
            4 references
25          public abstract void DisplayAccountSummary();
26      }
27  [ }
```

```csharp
namespace Week6_HW4
{
    public class BusinessLoanAccount : LoanAccount
    {
        public BusinessLoanAccount(int accountNumber, decimal loanAmountRequested)
        {
            RoutingNumber = 200;
            AccountNumber = accountNumber;
            LoanAmountRequested = loanAmountRequested;
        }
        public override decimal CalLoanFees(decimal loanAmount)
        {
            decimal loanProcessingFee;
            if (loanAmount >= 10000)
            {
                loanProcessingFee = 0.12322m * LoanAmountRequested;
            }
            else
            {
                loanProcessingFee = 0.08573m * LoanAmountRequested;
            }
            TotalLoanFee = loanProcessingFee;
            NetLoanAmount = TotalLoanFee + LoanAmountRequested;
            return TotalLoanFee;
        }

        public override void DisplayAccountSummary()
        {
            Console.WriteLine($"Business Loan Account Summary \nAccount Routing Number: {RoutingNumber} \nAccount Number: {AccountNumber} \nLoan Amount Requested: {(LoanAmountRequested.ToString(format:"C2"))} " +
                        $"\nTotal Loan Fee: {(TotalLoanFee.ToString(format:"C2"))} \nTotal Customer Net Loan: {(NetLoanAmount.ToString(format:"C2"))}");
        }
    }
}
```

```
 9    b) Create 2x classes PersonalLoanAccount and BusinessLoanAccount that inherits from the abstract class LoanAccount.
10    c) All Personal Loan Account's routing number should be set automatically to 100 . There is no loan processing fees for this type of account.
11    d) All Business Loan Account's routing number should be set automatically to 200.  Business loan amount at $10,000 or more will be imposed a 12.322% loan processing fee. Business loan amount that is less than $10,000
12    e) All currency numbers must be formatted correctly.   < 5 pts >
13    */
14
15    namespace Week6_HW4
16    {
          3 references
17        public class PersonalLoanAccount : LoanAccount
18        {
              1 reference
19            public PersonalLoanAccount(int accountNumber, decimal loanAmountRequested)
20            {
21                RoutingNumber = 100;
22                AccountNumber = accountNumber;
23                LoanAmountRequested = loanAmountRequested;
24            }
              4 references
25            public override decimal CalLoanFees(decimal loanAmount)
26            {
27                return 0;
28            }
29
              4 references
30            public override void DisplayAccountSummary()
31            {
32                Console.WriteLine($"Personal Loan Account Summary \nAccount Routing Number: {RoutingNumber} \nAccount Number: {AccountNumber} \nLoan Amount Requested: {(LoanAmountRequested.ToString(format:"C2"))} " +
33                    $"\nTotal Loan Fee: {(0.ToString(format:"C2"))} \nTotal Customer Net Loan: {(LoanAmountRequested.ToString(format:"C2"))}");
34            }
35        }
36    }
```