

## Bank Application

Build a OOPS to Enroll a new Bank and add Locker details. Use a menu driven approach to do the same.

a) Create a Class **Locker** with the following attributes:

Member Field Name	Type
_number	int
_lockType	string
_password	string
_amount	double
_lastOpened	DateTime

Mark all the attributes as private.

Create / Generate appropriate properties.

Add a default constructor and a parameterized constructor to take in all attributes in the given order:

**Locker( int \_number, string \_lockType, string \_password, double \_amount, DateTime \_lastOpened )**

b) Create the following static method in **Locker** class,

Method Name	Description
public static Locker CreateLocker(string detail)	This method accepts a string which contains locker details separated by commas. Split the details and create a locker object from the details and return it.

The locker details should be given as a comma-separated value in the below order,  
**\_number, \_lockType, \_password, \_amount, \_lastOpened**

d) Create the following methods in **Bank** class,

Method Name	Description
public void AddLockerToBank(Locker locker)	This method accepts a locker object and adds the locker to the locker list of the current Bank. Use Array of objects for List)

<pre>public bool RemoveLockerFromBank(int number)</pre>	<p>This method will get the number of the locker and delete the locker with the specified number from the current Bank. If a locker with the given number found, delete the locker and return <b>true</b>. If a locker with the number is not found return <b>false</b>.</p>
<pre>public void DisplayLockers()</pre>	<p>This method will display the locker list in the current Bank. If the locker list is empty display "<b>No lockers to show</b>", else display "Lockers in [bank name]" and display all the locker details in the specified format. Where [bank name] specifies the name of the bank.</p>

After deletion, if true is returned print "**Locker successfully deleted**", else print "**Locker not found in the bank**".

**Note:** The above print statements should be present in the main method.

#### Problem Overview:

In this requirement contains menu driven,

- 1.Add Locker
- 2.Delete Locker
- 3.Display Lockers
- 4.Exit

If the user select option-1, then get the locker details from the user(which is seperated by comma). Split that locker details and create a locker object(Use CreateLocker method ) and add that locker to the locker list(which is in bank) Use AddLockerToBank method to add the locker to the bank.

If the user select option-2, then get the locker number from the user, If locker will found in the lockerList(bank), then remove the locker from the bank and print the message " **Locker successfully deleted**". If the locker not found in the list, then print the message "**Locker not found in bank**". Use RemoveLockerFromBank method, that method returns boolean(either true or false) value. Display the message in Main menu based upon the appropriate return type.

If the user select option-3, then display the locker details for the bank(Use following format to print the details). Use DisplayLockers method. If there is no locker in the list, then display "**No lockers to show**".

When the "locker" object is printed, it should display the following format

Print format:

Use **Console.WriteLine("{0,-8} {1,-15} {2,-8} {3,-10} {4})", "Number", "Lock Type",**

**"Password", "Amount", "Last Opened");** for printing the details of locker in tabular form.  
**Display 1 digit after the decimal point in Double.**

**Sample Input/Output:**

Enter the name of the Bank:

**SBI**

- 1.Add Locker
- 2.Delete Locker
- 3.Display Lockers
- 4.Exit

Enter your choice:

**3**

No lockers to show

- 1.Add Locker
- 2.Delete Locker
- 3.Display Lockers
- 4.Exit

Enter your choice:

**2**

Enter the locker number to be deleted:

**134**

Locker not found in bank

- 1.Add Locker
- 2.Delete Locker
- 3.Display Lockers
- 4.Exit

Enter your choice:

**1**

**145,Keypad,abcd,1000,1-02-2018**

Locker successfully added

- 1.Add Locker
- 2.Delete Locker
- 3.Display Lockers
- 4.Exit

Enter your choice:

**1**

**587,FingerPrint,wxyz,1500,02-03-2018**

Locker successfully added

- 1.Add Locker
- 2.Delete Locker
- 3.Display Lockers
- 4.Exit

Enter your choice:

**1**

**296,Lock,qwerty,750,23-1-2018**

Locker successfully added

- 1.Add Locker
- 2.Delete Locker
- 3.Display Lockers
- 4.Exit

Enter your choice:

**3**

Lockers in SBI

Number	Lock Type	Password	Amount	Last Opened
145	Keypad	abcd	1000.0	01-02-2018
587	FingerPrint	wxyz	1500.0	02-03-2018
296	Lock	qwerty	750.0	23-01-2018

- 1.Add Locker
- 2.Delete Locker
- 3.Display Lockers
- 4.Exit

Enter your choice:

**2**

Enter the locker number to be deleted:

**296**

Locker successfully deleted

- 1.Add Locker
- 2.Delete Locker
- 3.Display Lockers
- 4.Exit

Enter your choice:

**3**

Lockers in SBI

Number	Lock Type	Password	Amount	Last Opened
145	Keypad	abcd	1000.0	01-02-2018
587	FingerPrint	wxyz	1500.0	02-03-2018

- 1.Add Locker
- 2.Delete Locker
- 3.Display Lockers
- 4.Exit

Enter your choice:

**4**