Task:

1)Create a c# Program for bank account withdraw and deposit.
2)Create a C# Program for Library Management System.

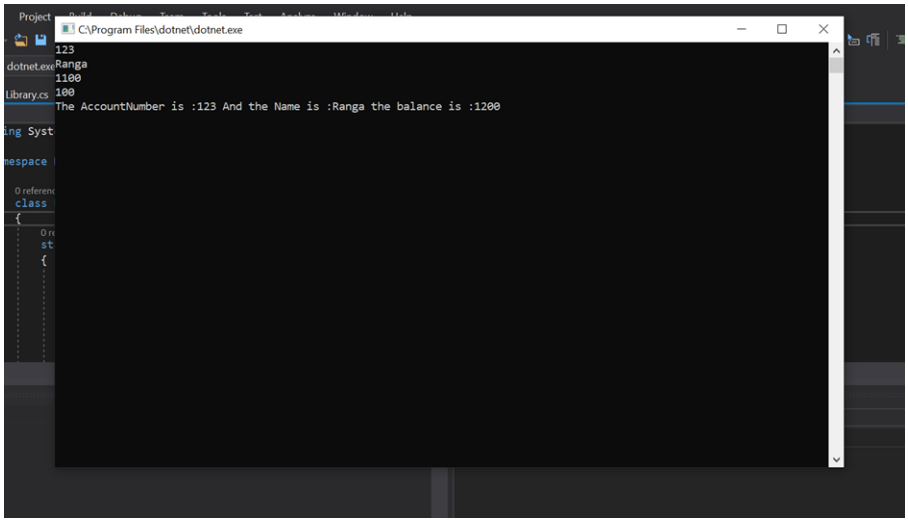
Program 1:

```
using System;

namespace Day4Bank
{
    class Program
    {
        static void Main(string[] args)
        {
            int Accountnumber = Convert.ToInt32(Console.ReadLine());
            string AccountHolderName = Console.ReadLine();
            int Depositamt = Convert.ToInt32(Console.ReadLine());
            int Widthdraw = Convert.ToInt32(Console.ReadLine());

            BankAccount bankAccount = new BankAccount(Accountnumber, AccountHolderName);
            bankAccount.Deposit(Depositamt);
            bankAccount.Deposit(Widthdraw);
            bankAccount.PrintAccountDetails();

            Console.ReadLine();
        }
    }
}
```

```
using System;
using System.Collections.Generic;
using System.Text;

namespace Day4Bank
{
    class BankAccount
    {
        readonly int Accountnumber;
        private  string AccountHolderName;
        private  int Balance=0;

        public BankAccount(int Accountnumber,string AccountHolderName)
        {
            this.AccountHolderName1 = AccountHolderName;
            this.Accountnumber = Accountnumber;

        }

        public string AccountHolderName1 { get => AccountHolderName; set =>
AccountHolderName = value; }
        public int Balance1 { get => Balance; set => Balance = value; }

        public int Deposit(int amt)
        {
            Balance1 += amt;
```

```
            return Balance1;
        }
        public int Withdraw(int remamt)
        {
            Balance1 -= remamt;
            return Balance1;
        }
        public void PrintAccountDetails()
        {
            Console.WriteLine("The AccountNumber is :" + Accountnumber + " And the Name
is :"+AccountHolderName1+" the balance is :"+Balance1);
        }
    }
}
```

Output:



Program 2:

```
using System;

namespace LibraryManagement
{
    class Program
    {
        static void Main(string[] args)
        {
            Book[] arr = { new Book(101, "Tholkappiyam", "JayyaKKavin", true), new Book(102,
"Thirukural", "Ramkumar", true), new Book(103, "Puranooru", "Parithi", true), new Book(104,
"HahaHoHo", "Sanjai Bro", false) };
            Library library = new Library(arr);
            int choice = 0;
            while (choice != 4)
            {
                Console.WriteLine("Choose the option\n1.Borrow Book\n2.Return
Book\n3.Display Books\n4.Exit");
                choice = Convert.ToInt32(Console.ReadLine());
```

```
                if (choice == 1)
                {
                    Console.WriteLine("Enter the title of the book to borrow");
                    string title = Console.ReadLine();
                    library.BorrowBook(title);
                }
                else if (choice == 2)
                {
                    Console.WriteLine("Enter the title of the book to return");
                    string title = Console.ReadLine();
                    library.ReturnBook(title);
                }
                else if (choice == 3)
                {
                    library.DisplayBookDetails();
                }
                else if (choice == 4)
                {
                    break;
                }
            }
        }
    }
}
```

```
using System;
using System.Collections.Generic;
using System.Text;

namespace LibraryManagement
{
    internal class Library
    {

        Book[] book = new Book[4];
        public Library(Book[] arr)
        {
            book = arr;
        }
        public void BorrowBook(string title)
        {
            int count = 0;
            for (int i = 0; i < book.Length; i++)
            {
                if (book[i].Title.Equals(title))
                {
                    book[i].IsAvailable = false;
                    Console.WriteLine("Borrowed");
                    count++;
                }
            }
            if (count == 0) { Console.WriteLine("Book not Available"); }
        }
        public void ReturnBook(string title)
        {
            for (int i = 0; i < book.Length; i++)
            {
                if (book[i].Title.Equals(title))
                {
                    book[i].IsAvailable = true;
                    Console.WriteLine("Returned");
                }
            }

        }
```

```
        public void DisplayBookDetails()
        {
            for (int i = 0; i < book.Length; i++)
            {
                Console.WriteLine("Title :" + book[i].Title + " Author :" + book[i].Author +
" Availablity " + book[i].IsAvailable);
            }
        }
    }
}
```

```
using System;
using System.Collections.Generic;
using System.Text;

namespace LibraryManagement
{
    internal class Book
    {
        private readonly int bookId;
        private string title;
        private string author;
        private bool isAvailable;

        public Book(int bookId, string title, string author, bool isAvailable)
        {
            this.bookId = bookId;
            Title = title;
            Author = author;
            IsAvailable = isAvailable;
        }

        public string Title { get => title; set => title = value; }
        public string Author { get => author; set => author = value; }
        public bool IsAvailable { get => isAvailable; set => isAvailable = value; }
    }
}
```

Output: