Name: Suriya Lakshmi A EmpID: TR10435 Date :05-08-2023 **Assigment-1:** BankAccount.cs using System; using System.Collections.Generic; using System.Ling; using System.Text; using System. Threading. Tasks; namespace SimplePrograms { class BankAccount private readonly int acc_number; private int balance; private string acc_holder_name; public BankAccount(string acc_holder_name) acc number = 123456; Acc_holder_name = acc_holder_name; Balance = 0; } public int Acc_number => acc_number; public int Balance { get => balance; set => balance = value; } public string Acc_holder_name { get => acc_holder_name; set => acc_holder_name = value; } public void Deposit(int dep_amount)

if (dep_amount <= 0)

else

Console.WriteLine("inadequate amount");

Balance = dep_amount + Balance;

```
}
    }
    public void Withdraw(int withdraw_amt)
       if (withdraw_amt <= 0)</pre>
         Console.WriteLine("Zero balance");
       else if (Balance >= withdraw_amt)
         Balance = Balance - withdraw_amt;
       }
       else
         Console.WriteLine("please enter amount correctly");
       }
    public void Display()
       Console.WriteLine("Acc Number: " + Acc number);
       Console.WriteLine("Acc Holder Name:" + Acc_holder_name);
       Console.WriteLine("Balance:" + Balance);
    }
Program.cs
Console.WriteLine("account name: ");
string holder name = Console.ReadLine();
Console.WriteLine("deposite amount");
int deposite = Convert.ToInt32(Console.ReadLine());
Console.WriteLine("withdraw amount: ");
int withdraw = Convert.ToInt32(Console.ReadLine());
BankAccount bankAccount = new BankAccount(holder_name);
bankAccount.Deposit(deposite);
bankAccount.Withdraw(withdraw);
bankAccount.Display();
Console.ReadLine();
```

Assignment-2

Book.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace LibraryManagement
{
  class Book
     private readonly int bookld;
     private string title;
     private string author;
     private bool isAvailable;
     public Book(int bookld, string title, string author, bool isAvailable)
    {
       this.bookld = bookld;
       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; }
}
}
```

Library.cs

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace LibraryManagement
{
  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].lsAvailable = 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);
    }
}
}</pre>
```

Program.cs

```
using LibraryManagement;
Book[] arr = { new (1, "It end with us", "collen", true), new(2, "It Start with us", "Collen", true), new(3,
"Deep", "collen", true), new(4, "Beauty of ocean", "collen", true) };
Library library = new Library(arr);
int choice = 0;
while (choice != 4)
  Console.WriteLine("Choose \n1.Borrow Book\n2.Return Book\n3.Display Book\n4.Exit");
  choice = Convert.ToInt32(Console.ReadLine());
  if (choice == 1)
  {
     Console.WriteLine("Book title: ");
     string title = Console.ReadLine();
     library.BorrowBook(title);
  else if (choice == 2)
     Console.WriteLine("Book need to return: ");
     string title = Console.ReadLine();
     library.ReturnBook(title);
  else if (choice == 3)
     library.DisplayBookDetails();
  }
```