```
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 = 2345;
       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)
         Console.WriteLine("inadequate amount");
       else
         Balance = dep_amount + Balance;
```

Name: Suriya Lakshmi A

```
}
    }
    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();
```

```
Sec_Type
dep_amount
2000
withdraw amount:
1000
Acc_NoLer Mase_Soriye

Belance:19000
```

Assignment-2

```
Book.cs
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; }
    }
```

```
Library.cs
```

```
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);
            }
        }
Program.cs
Book[] arr = { new Book(1, "AA", "suga", true), new Book(2, "BB", "riya",
false), new Book(3, "CC", "lisa", true), new Book(4, "DD", "rocks", 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;
                }
            }
        }
```

```
Choose the option

1.Borrow Book

2.Return Book

3.Display Books

4.Exit

Stear the title of the book to borrow

AA

Borrowed

Choose the option

1.Borrow Book

2.Return Book

3.Display Books

4.Exit

7.5
```