

Aietibar eabd alamer

Grub:B2

```
using System;
```

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

```
class Book
```

```
{
```

```
    public string Title { get; set; }
```

```
    public string Author { get; set; }
```

```
    public bool IsAvailable { get; set; }
```

```
    public Book(string title, string author)
```

```
    {
```

```
        Title = title;
```

```
        Author = author;
```

```
        IsAvailable = true;
```

```
    }
```

```
}
```

```
class Library
```

```
{
```

```
    private List<Book> books = new List<Book>();
```

```
    public void AddBook(string title, string author)
```

```
    {
```

```
        Book newBook = new Book(title, author);
```

```
        books.Add(newBook);
```

```
        Console.WriteLine("Book added to the library: " + title + " by " + author);
```

```
}
```

```
public void SearchBookByTitle(string title)
```

```
{
```

```
    foreach (Book book in books)
```

```
    {
```

```
        if (book.Title.ToLower() == title.ToLower())
```

```
        {
```

```
            Console.WriteLine("Book found: " + book.Title + " by " + book.Author);
```

```
            return;
```

```
        }
```

```
    }
```

```
    Console.WriteLine("Book not found");
```

```
}
```

```
public void SearchBookByAuthor(string author)
```

```
{
```

```
    foreach (Book book in books)
```

```
    {
```

```
        if (book.Author.ToLower() == author.ToLower())
```

```
        {
```

```
            Console.WriteLine("Book found: " + book.Title + " by " + book.Author);
```

```
            return;
```

```
        }
```

```
    }
```

```
    Console.WriteLine("Book not found");
```

```
}
```

```
public void CheckBookAvailability(string title)
```

```
{
    foreach (Book book in books)
    {
        if (book.Title.ToLower() == title.ToLower())
        {
            if (book.IsAvailable)
            {
                Console.WriteLine("Book is available");
            }
            else
            {
                Console.WriteLine("Book is currently unavailable");
            }
            return;
        }
    }
    Console.WriteLine("Book not found");
}
}
```

```
class Program
{
    static void Main()
    {
        Library library = new Library();

        library.AddBook("The Great Gatsby", "F. Scott Fitzgerald");
        library.AddBook("To Kill a Mockingbird", "Harper Lee");
        library.AddBook("1984", "George Orwell");
    }
}
```

```
library.SearchBookByTitle("The Great Gatsby");  
library.SearchBookByAuthor("Harper Lee");  
library.CheckBookAvailability("1984");  
}  
}
```