

Api Documentation / SchoolReportSystem.model / Subject

#### Show / Hide Table of Contents

# Class Subject

This class defines a Subject object.

Implements IComparable to allow Subject objects to be compared.

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Inheritance

□ System.Object

□ Subject

Implements

System.IComparable<Subject>

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System. Object. Reference Equals (System. Object, System. Object)

Namespace: SchoolReportSystem.model
Assembly: SchoolReportSystem.dll

Syntax

public class Subject : IComparable<Subject>

# Constructors

### Subject(String, String)

This custom constructor method is responsible for creating a Subject object.

Declaration

public Subject(string name, string grade)

#### Parameters

Туре	Name	Description
System.String	name	The name of the subject.
System.String	grade	The subject grade.

#### Examples

Subject sub = new Subject("Physics", "A\*");

This creates a Subject object with 'Physics' as the subject name, and 'A\*' as the subject grade.

# Properties

# 

This method retrieves the subject grade.

Declaration

#### public string GetSubjectGrade { get; }

#### Property Value

Туре	Description	
System.String	returns the value of GetSubjectGrade.	

#### Examples

```
Subject sub = new Subject("Physics", "A*");
sub. GetSubjectName;
```

This will return "A\*".

#### 

This method retrieves the subject name.

Declaration

```
public string GetSubjectName { get; }
```

#### **Property Value**

Туре	Description	
System.String	returns the value of GetSubjectName.	

#### Examples

```
Subject sub = new Subject("Physics", "A*");
sub.GetSubjectName;
```

This will return "Physics".

# Methods

### 

This method compares one Subject object with another Subject object.

Declaration

```
public int CompareTo(Subject other)
```

#### **Parameters**

Туре	Name	Description
Subject	other	A different Subject object.

#### Returns

Туре	Description	
System.Int32	returns 0 if the objects are the same and -1 or 1 if they are different.	

#### Examples

```
Subject sub = new Subject("Maths", "B");
Subject sub2 = new Subject("Maths", "B");
sub.CompareTo(sub2);
```

This returns 0, as the objects have the exact same subject name.

# 

This method overrides the default 'ToString()' representation of the Subject class.

#### Declaration

```
public override string ToString()
```

Returns

Туре	Description
System.String	

Overrides

System.Object.ToString()

Examples

```
Subject sub = new Subject("Biology", "B"); sub.ToString();
```

# 

System.IComparable<T>