

ca.uwo.csd.cs2212.team10

Class Course

java.lang.Object

ca.uwo.csd.cs2212.team10.Course

```
public class Course
  extends java.lang.Object
```

Class representing a course with students and deliverables

Constructor Summary

Constructors

Constructor and Description

Course(java.lang.String code, java.lang.String title, java.lang.String term)
Create a new course with the specified code, title, and term, and initially no students or deliverables

Method Summary

Methods

Modifier and Type

Method and Description

void	addDeliverable (Deliverable deliverable) Adds a deliverable to the course
void	addStudent (Student student) Adds a student to the course
void	exportGrades (java.lang.String fileName) Exports list of grades to a CSV file.
java.lang.String	getCode () Gets course code
java.util.ArrayList< Deliverable >	getDeliverableList () Gets the list of deliverables in the course
java.util.ArrayList< Student >	getStudentList () Gets the list of students in the course
java.lang.String	getTerm () Gets term
java.lang.String	getTitle () Gets course title

void	importGrades (java.lang.String fileName) Imports list of grades from a CSV file.
void	importStudents (java.lang.String fileName) Imports list of students from a CSV file.
void	removeDeliverable (Deliverable deliverable) Removes a deliverable from the course
void	removeStudent (Student student) Removes a student from the course
void	setCode (java.lang.String code) Sets course code
void	setTerm (java.lang.String term) Sets term
void	setTitle (java.lang.String title) Sets course title

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Course

```
public Course(java.lang.String code,
              java.lang.String title,
              java.lang.String term)
```

Create a new course with the specified code, title, and term, and initially no students or deliverables

Parameters:

code - Course code

title - Title of course

term - Term in which course is taught

Method Detail

setCode

```
public void setCode(java.lang.String code)
```

Sets course code

Parameters:

code - The code to set

setTerm

```
public void setTerm(java.lang.String term)
```

Sets term

Parameters:

term - The term to set

setTitle

```
public void setTitle(java.lang.String title)
```

Sets course title

Parameters:

title - The title to set

getCode

```
public java.lang.String getCode()
```

Gets course code

Returns:

Course code

getTerm

```
public java.lang.String getTerm()
```

Gets term

Returns:

Term in which course is taught

getTitle

```
public java.lang.String getTitle()
```

Gets course title

Returns:

Title of course

getStudentList

```
public java.util.ArrayList<Student> getStudentList()
```

Gets the list of students in the course

Returns:

List of students in the course

getDeliverableList

```
public java.util.ArrayList<Deliverable> getDeliverableList()
```

Gets the list of deliverables in the course

Returns:

List of deliverables in the course

addStudent

```
public void addStudent(Student student)
```

Adds a student to the course

Parameters:

`student` - The student to add

removeStudent

```
public void removeStudent(Student student)
```

Removes a student from the course

Parameters:

`student` - The student to remove

addDeliverable

```
public void addDeliverable(Deliverable deliverable)
```

Adds a deliverable to the course

Parameters:

`deliverable` - The deliverable to add

removeDeliverable

```
public void removeDeliverable(Deliverable deliverable)
```

Removes a deliverable from the course

Parameters:

`deliverable` - The deliverable to remove

importStudents

```
public void importStudents(java.lang.String fileName)
                        throws java.io.IOException
```

Imports list of students from a CSV file. Throws an IOException if the file could not be read.

Parameters:

`fileName` - The name of the file to read

Throws:

`java.io.IOException`

importGrades

```
public void importGrades(java.lang.String fileName)
                        throws java.io.IOException
```

Imports list of grades from a CSV file. Throws an IOException if the file could not be read.

Parameters:

`fileName` - The name of the file to read

Throws:

`java.io.IOException`

exportGrades

```
public void exportGrades(java.lang.String fileName)
                        throws java.io.IOException
```

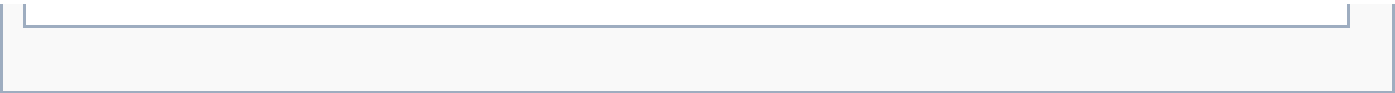
Exports list of grades to a CSV file. Throws an IOException if the file could not be written.

Parameters:

`fileName` - The name of the file to write

Throws:

`java.io.IOException`



[Package](#) [Class](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[Prev Class](#) [Next Class](#) [Frames](#) [No Frames](#) [All Classes](#)

Summary: [Nested](#) | [Field](#) | [Constr](#) | [Method](#) Detail: [Field](#) | [Constr](#) | [Method](#)

ca.uwo.csd.cs2212.team10

Class Deliverable

java.lang.Object

ca.uwo.csd.cs2212.team10.Deliverable

```
public class Deliverable
extends java.lang.Object
```

Class representing a gradeable item to be completed by a student in a course

Constructor Summary

Constructors

Constructor and Description

Deliverable(java.lang.String name, java.lang.String type, int weight)
Create a new deliverable with specified name, type, and weight

Method Summary

Methods

Modifier and Type	Method and Description
java.lang.String	getName () Gets name of deliverable
java.lang.String	getType () Gets type of deliverable
int	getWeight () Gets weight of deliverable
void	setName (java.lang.String name) Sets name of deliverable
void	setType (java.lang.String type) Sets type of deliverable
void	setWeight (int weight) Sets weight of deliverable

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Deliverable

```
public Deliverable(java.lang.String name,  
                  java.lang.String type,  
                  int weight)
```

Create a new deliverable with specified name, type, and weight

Parameters:

`name` - The name of the deliverable

`type` - The type of deliverable

`weight` - The weight of the deliverable

Method Detail

setName

```
public void setName(java.lang.String name)
```

Sets name of deliverable

Parameters:

`name` - The name to set

setType

```
public void setType(java.lang.String type)
```

Sets type of deliverable

Parameters:

`type` - The type to set

setWeight

```
public void setWeight(int weight)
```

Sets weight of deliverable

Parameters:

`weight` - The weight to set

getName

```
public java.lang.String getName()
```

Gets name of deliverable

Returns:

The name of the deliverable

getType

```
public java.lang.String getType()
```

Gets type of deliverable

Returns:

The type of deliverable

getWeight

```
public int getWeight()
```

Gets weight of deliverable

Returns:

The weight of the deliverable

[Package](#) [Class](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[Prev Class](#) [Next Class](#) [Frames](#) [No Frames](#) [All Classes](#)

Summary: [Nested](#) | [Field](#) | [Constr](#) | [Method](#) [Detail: Field](#) | [Constr](#) | [Method](#)

ca.uwo.csd.cs2212.team10

Class Grade

java.lang.Object

ca.uwo.csd.cs2212.team10.Grade

```
public class Grade
extends java.lang.Object
```

Class representing a student's grade for a particular deliverable

Constructor Summary

Constructors

Constructor and Description

[Grade](#)([Deliverable](#) deliverable, float grade)

Create a new grade for specified deliverable and with given grade

Method Summary

Methods

Modifier and Type	Method and Description
Deliverable	getDeliverable() Gets the deliverable
float	getGrade() Gets the grade
void	setGrade (float grade) Sets the grade

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Grade

```
public Grade(Deliverable deliverable,  
            float grade)
```

Create a new grade for specified deliverable and with given grade

Parameters:

`deliverable` - Deliverable with which grade is associated

`grade` - Grade received by student

Method Detail

setGrade

```
public void setGrade(float grade)
```

Sets the grade

Parameters:

`grade` - The grade to set

getGrade

```
public float getGrade()
```

Gets the grade

Returns:

Grade received by student

getDeliverable

```
public Deliverable getDeliverable()
```

Gets the deliverable

Returns:

Deliverable with which grade is associated

ca.uwo.csd.cs2212.team10

Class Gradebook

java.lang.Object

ca.uwo.csd.cs2212.team10.Gradebook

```
public class Gradebook
extends java.lang.Object
```

Class representing a gradebook with several courses

Constructor Summary

Constructors

Constructor and Description

<code>Gradebook ()</code> Create a new empty gradebook

Method Summary

Methods

Modifier and Type	Method and Description
void	<code>addCourse (Course course)</code> Adds a course to the gradebook
Course	<code>getActiveCourse ()</code> Gets the active course
java.util.ArrayList< Course >	<code>getCourseList ()</code> Gets the list of courses in the gradebook
void	<code>removeCourse (Course course)</code> Removes a course from the gradebook
void	<code>setActiveCourse (Course course)</code> Sets the active course.

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Gradebook

```
public Gradebook()
```

Create a new empty gradebook

Method Detail

setActiveCourse

```
public void setActiveCourse(Course course)
```

Sets the active course. Throws an `IllegalArgumentException` if the given course is not in the gradebook.

Parameters:

`course` - The course to set as active

getActiveCourse

```
public Course getActiveCourse()
```

Gets the active course

Returns:

Course with which user is currently working

getCourseList

```
public java.util.ArrayList<Course> getCourseList()
```

Gets the list of courses in the gradebook

Returns:

List of all courses

addCourse

```
public void addCourse(Course course)
```

Adds a course to the gradebook

Parameters:

course - The course to add

removeCourse

```
public void removeCourse(Course course)
```

Removes a course from the gradebook

Parameters:

course - The course to add

[Package](#) [Class](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[Prev Class](#) [Next Class](#) [Frames](#) [No Frames](#) [All Classes](#)

Summary: [Nested](#) | [Field](#) | [Constr](#) | [Method](#) Detail: [Field](#) | [Constr](#) | [Method](#)

ca.uwo.csd.cs2212.team10

Class ReportGenerator

java.lang.Object

ca.uwo.csd.cs2212.team10.ReportGenerator

```
public class ReportGenerator
extends java.lang.Object
```

Class used to generate and send PDF reports

Constructor Summary

Constructors

Constructor and Description

[ReportGenerator\(\)](#)

Method Summary

Methods

Modifier and Type

Method and Description

static void

[generatePDFReport](#)([Student](#) student, [Course](#) course,
java.lang.String fileName)

Generates a PDF report for a student in a specified course.

static void

[sendEmailReports](#)([Student](#)[] students, [Course](#) course,
java.lang.String[] emails)

Sends emails containing PDF reports for one or more students

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait,
wait

Constructor Detail

ReportGenerator


```
public ReportGenerator()
```

Method Detail

generatePDFReport

```
public static void generatePDFReport(Student student,
                                     Course course,
                                     java.lang.String fileName)
    throws java.io.IOException
```

Generates a PDF report for a student in a specified course. Throws an IOException if the file could not be written.

Parameters:

`student` - The requested student
`course` - The course the student is in
`fileName` - The filename

Throws:

`java.io.IOException`

sendEmailReports

```
public static void sendEmailReports(Student[] students,
                                     Course course,
                                     java.lang.String[] emails)
```

Sends emails containing PDF reports for one or more students

Parameters:

`students` - An array of requested students
`course` - The course the students are in
`emails` - An array of the email addresses to send to

Package **Class** Tree Deprecated Index Help

Prev Class **Next Class** Frames No Frames All Classes

Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

ca.uwo.csd.cs2212.team10

Class Student

java.lang.Object

ca.uwo.csd.cs2212.team10.Student

```
public class Student
extends java.lang.Object
```

Class representing a student in a course.

Constructor Summary

Constructors

Constructor and Description

Student(java.lang.String firstName, java.lang.String lastName, int num, java.lang.String email)

Create a new Student object with the specified attributes and initially no grades

Method Summary

Methods

Modifier and Type	Method and Description
java.lang.String	getEmail () Sets student's email
java.lang.String	getFirstName () Gets student's first name
java.lang.String	getLastName () Gets student's last name
int	getNum () Gets student number
void	setEmail (java.lang.String email) Sets student's email
void	setFirstName (java.lang.String firstName) Sets student's first name
void	setLastName (java.lang.String lastName) Sets student's last name
void	setNum (int num)

Sets student number

Methods inherited from class java.lang.Object

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Detail

Student

```
public Student(java.lang.String firstName,
               java.lang.String lastName,
               int num,
               java.lang.String email)
```

Create a new Student object with the specified attributes and initially no grades

Parameters:

firstName - Student's first name

lastName - Student's last name

num - Student number

email - Student's email address

Method Detail

setFirstName

```
public void setFirstName(java.lang.String firstName)
```

Sets student's first name

Parameters:

firstName - The first name to set

setLastName

```
public void setLastName(java.lang.String lastName)
```

Sets student's last name

Parameters:

lastName - The last name to set

setNum

```
public void setNum(int num)
```

Sets student number

Parameters:

num - The student number to set

setEmail

```
public void setEmail(java.lang.String email)
```

Sets student's email

Parameters:

email - The email to set

getFirstName

```
public java.lang.String getFirstName()
```

Gets student's first name

Returns:

Student's first name

getLastName

```
public java.lang.String getLastName()
```

Gets student's last name

Returns:

Student's last name

getNum

```
public int getNum()
```

Gets student number

Returns:

Student number

getEmail

```
public java.lang.String getEmail()
```

Sets student's email

Returns:

Student's email address

[Package](#) [Class](#) [Tree](#) [Deprecated](#) [Index](#) [Help](#)

[Prev Class](#) [Next Class](#) [Frames](#) [No Frames](#) [All Classes](#)

Summary: [Nested](#) | [Field](#) | [Constr](#) | [Method](#) [Detail: Field](#) | [Constr](#) | [Method](#)