ClassRoom

- teacher Teacher
- students : Arraylist<Student>
- classroom : String
- name : String

+ ClassRoon(name : String, classroon : String, students : ArrayList<Student>, teacher: Teacher)
+ getName() : String
+ setName(name : String) : void
+ getClassroom() : String
+ setClassroom(classroom : String) : void
+ getStudents() : Arraylist<Student>,
+ setStudents(students : ArrayList<Student>) : void
+ getTeacher() : Teacher
+ setTeacher (teacher : Teacher) : void
+ addStudent (student : Student) : void
+ toString() : String

Teacher

- id : int
- name : String
- clase : ClassRoom
- salary : double

+ Teacher(id : int, name : String, salary : double, clase : ClassRoom)
+ Teacher(name : String, salary : double, clase: ClassRoom)
+ full_Time(years_experience : int) : void
+ part Time(hours _per_week : int) : void
+ getId() : int
+ setId(id : int) : void
+ getName() : String
+ setName(name : String) : void
+ getSalary() : double
+ setSalary(salary : Double) : void
+ getClasel) : ClassRoom
+ setClase(clase : ClassRoom) : void
+ calculateSalary() : double
+ toString() : String

<<utility>> ClassController

-sc : Scanner

+ displayClassData(classes : ArrayList<ClassRoom>) : void
+ chooseClass(classes: ArrayList<ClassRoom>): void
+ createClassRoom(student : ArrayList<Student>, teacher : ArrayList<TeachingRole>): ClassRoom

---

<<utility>> TeacherController

+ getAllTeachers(teachers : ArrayList<TeachingRole>) : void

<<utility>>StudentController

-sc : Scanner

+ createStudent (students : ArrayList<Student>) : Student
+ searchStudent(classrooms : ArrayList<ClassRoom>, studentIdToSearch : int): void

---

Student

- age : int
- name : String
- id : int

+ Student(id : int, name : String, age : int)
+ getId() : int
+ toString() : String

PartTimeTeacher

- profitPerHour : int
- activeHoursPerWeek : int

+ PartTimeTeacher(id : int, name : String, salary : Double, clase : ClassRoom, activeHoursPerWeek : int)
+ calculateSalary() : double

FullTimeTeacher

- experienceYears : int

+ FullTimeTeacher(id : int, name : String, salary : Double, clase : ClassRoom, experienceYears : int)
+ calculateSalary() : double

**<<Interfaz>>
TeachingRole**

getSalary() : double
getClase : ClassRoom
getId() : int
getName() : String