Package ATU

Class Student

java.lang.Object
      ATU.Student

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

Class for every student entity
Each Student has SID, name, email, k1_energy, k2_energy, k3, preference and concerns.

Constructor Summary

Constructors

Constructor	Description
Student (java.lang.String id, java.lang.String name, java.lang.String email, int k1_energy, int k2_energy, boolean k3_tick1, boolean k3_tick2, boolean my_preference, java.lang.String concerns)	Typical constructor
Student (java.lang.String id, java.lang.String name, java.lang.String email, java.lang.String k1_energy, java.lang.String k2_energy, java.lang.String k3_tick1, java.lang.String k3_tick2, java.lang.String my_preference, java.lang.String concerns)	Constructor, all parameters are Strings

Method Summary

All Methods   Static Methods   Instance Methods   Concrete Methods

Modifier and Type	Method	Description
static float	calEnergy_avg (java.util.ArrayList<Student> stuArr, int energyType)	a helper function for calculating the average of k1_energy/k2_energy of an array of Students
static int	calEnergy_max (java.util.ArrayList<Student> stuArr, int energyType)	a helper function for calculating the max of k1_energy/k2_energy of an array of Students
static int	calEnergy_min (java.util.ArrayList<Student> stuArr, int energyType)	a helper function for calculating the min of k1_energy/k2_energy of an array of Students
java.lang.String	getConcerns ()	
java.lang.String	getEmail ()	
java.lang.String	getId ()	

Modifier and Type	Method	Description
int	getK1_energy()	
int	getK2_energy()	
java.lang.String	getName()	
boolean	isK3_tick1()	
boolean	isK3_tick2()	
boolean	isMy_preference()	
static boolean	strToBool(java.lang.String input)	helper function to convert from "1" or "0" to boolean
static java.lang.String	toNumeralBool (java.lang.Boolean input)	helper function to convert boolean into "1" or "0"
java.lang.String	toString()	

Methods inherited from class java.lang.Object

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

Constructor Details

Student

```
public   Student(java.lang.String  id,
                 java.lang.String  name,
                 java.lang.String  email,
                 java.lang.String  k1_energy,
                 java.lang.String  k2_energy,
                 java.lang.String  k3_tick1,
                 java.lang.String  k3_tick2,
                 java.lang.String  my_preference,
                 java.lang.String  concerns)
```

Constructor, all parameters are Strings

Student

```
public   Student(java.lang.String  id,
                 java.lang.String  name,
                 java.lang.String  email,
                 int  k1_energy,
                 int  k2_energy,
                 boolean  k3_tick1,
                 boolean  k3_tick2,
                 boolean  my_preference,
                 java.lang.String  concerns)
```

Typical constructor

Method Details

strToBool

```
public static  boolean  strToBool(java.lang.String  input)
```

helper function to convert from "1" or "0" to boolean

Parameters:

`input` - a string which is either "1" or "0"

Returns:

true if input is "1", false otherwise

toNumeralBool

```
public static  java.lang.String  toNumeralBool(java.lang.Boolean  input)
```

helper function to convert boolean into "1" or "0"

Parameters:

`input` - the boolean value to be converted

Returns:

"1" if input is true, "0" if input is false, otherwise return "null"

calEnergy_avg

```
public static  float  calEnergy_avg(java.util.ArrayList<Student>  stuArr,
                                    int  energyType)
```

a helper function for calculating the average of k1_energy/k2_energy of an array of Students

Parameters:

`stuArr` - an array of Student

`energyType` - 1 for k1_energy, 2 for k2_energy

Returns:

the average value of k1_energy/k2_energy, which is in float type

calEnergy_min

```
public static  int  calEnergy_min(java.util.ArrayList<Student>  stuArr,
                                  int  energyType)
```

a helper function for calculating the min of k1_energy/k2_energy of an array of Students

Parameters:

`stuArr` - an array of Student

`energyType` - 1 for k1_energy, 2 for k2_energy

Returns:

the minimum value of k1_energy/k2_energy, which is in int type

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calEnergy_max

```
public static  int  calEnergy_max(java.util.ArrayList<Student>  stuArr,
                                  int  energyType)
```

a helper function for calculating the max of k1_energy/k2_energy of an array of Students

Parameters:

`stuArr` - an array of Student

`energyType` - 1 for k1_energy, 2 for k2_energy

Returns:

the maximum value of k1_energy/k2_energy, which is in int type

---

getId

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

---

getName

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

---

getEmail

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

---

getK1_energy

```
public  int  getK1_energy()
```

---

getK2_energy

```
public  int  getK2_energy()
```

---

isK3_tick1

```
public  boolean  isK3_tick1()
```

isK3_tick2

```
public  boolean  isK3_tick2()
```

isMy_preference

```
public  boolean  isMy_preference()
```

getConcerns

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

toString

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

Overrides:

toString in class java.lang.Object