Coordinate Class Reference

Public Member Functions

	Coordinate (double aX, double aY, double aZ) Constructor for the **Coordinate** Class. More...
	~Coordinate () Destructor for the **Coordinate** Class. More...
double	**getX** () Retrieves the X **Coordinate**. More...
double	**getY** () Retrieves the Y **Coordinate**. More...
double	**getZ** () Retrieves the Z **Coordinate**. More...
void	**setX** (const double &aX) Sets the X **Coordinate**. More...
void	**setY** (const double &aY) Sets the Y **Coordinate**. More...
void	**setZ** (const double &aZ) Sets the Z **Coordinate**. More...
void	**setXYZ** (const double &aX, const double &aY, const double &aZ) Sets the X, Y and Z Coordinates. More...
bool	**operator==** (const **Coordinate** &rhs) const

Private Member Functions

double	**convertM2F** (double) Convert Meters to Feet. More...
double	**convertF2M** (double) Convert Feet to Meters. More...
	Coordinate () Constructor for the **Coordinate** Class. More...

Private Attributes

double	**x**
double	**y**
double	**z**

Constructor & Destructor Documentation

◆ Coordinate() [1/2]

```
Coordinate::Coordinate ( double  aX,
                         double  aY,
                         double  aZ
                       )
```

Constructor for the **Coordinate** Class.

Parameters

aX This is the X **Coordinate**

aY This is the Y **Coordinate**

aZ This is the Z **Coordinate**

Returns

None.

◆ ~Coordinate()

```
Coordinate::~Coordinate ( )
```

Destructor for the **Coordinate** Class.

Parameters

None.

Returns

None.

◆ Coordinate() [2/2]

```
Coordinate::Coordinate ( )
```

private

Constructor for the **Coordinate** Class.

Parameters

None.

Returns

None.

Member Function Documentation

◆ convertF2M()

double Coordinate::convertF2M (double aFeet) private

Convert Feet to Meters.

Parameters

double The value in Feet

Returns

double The converted value in Meters.

◆ convertM2F()

double Coordinate::convertM2F (double aMeters) private

Convert Meters to Feet.

Parameters

double The value in meters

Returns

The converted value in feet.

◆ getX()

double Coordinate::getX ( )

Retrieves the X **Coordinate**.

Parameters

None.

Returns

The X **Coordinate**.

◆ getY()

double Coordinate::getY ( )

Retrieves the Y **Coordinate**.

Parameters

None.

Returns

The Y **Coordinate**.

◆ getZ()

double Coordinate::getZ ( )

Retrieves the Z **Coordinate**.

Parameters

None.

Returns

The Z **Coordinate**.

◆ setX()

void Coordinate::setX (const double & aX)

Sets the X **Coordinate**.

Parameters

aX The new value of the X **Coordinate**.

Returns

None.

◆ setXYZ()

```
void Coordinate::setXYZ ( const double &  aX,
                          const double &  aY,
                          const double &  aZ
                        )
```

Sets the X, Y and Z Coordinates.

Parameters

aX The new value of the X **Coordinate**.

aY The new value of the Y **Coordinate**.

aZ The new value of the Z **Coordinate**.

Returns

None.

◆ setY()

```
void Coordinate::setY ( const double &  aY )
```

Sets the Y **Coordinate**.

Parameters

aY The new value of the Y **Coordinate**.

Returns

None.

◆ setZ()

```
void Coordinate::setZ ( const double &  aZ )
```

Sets the Z **Coordinate**.

Parameters

aZ The new value of the Z **Coordinate**.

Returns

None.

The documentation for this class was generated from the following files:

- C:/Users/ethan/source/repos/ENPM808X_Midterm-master/include/**Coordinate.hpp**
- C:/Users/ethan/source/repos/ENPM808X_Midterm-master/app/Coordinate.cpp

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