Scaling and Conversion System

1.0

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

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nversion	7
Imperial	16
Metric	22
action::DivisionByZero	10
action	10
nversion::NegativeInput	27

2 Hierarchical Index

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

ıction::BadInput	
nversion	7
action::DivisionByZero	
Exception class for a division by zero	10
action	10
perial	16
tric	22
nversion::NegativeInput	27

4 Class Index

Chapter 3

File Index

3.1 File List

Here is a list of all files with brief descriptions:

Conversion.cpp Conversion.cpp
Conversion class definition for conversion of units
Conversion.h
Conversion class header for conversion of units
Fraction.cpp
Fraction.h
Imperial.cpp
Imperial class definition for conversion Imperial - Metric units
Imperial.h
Imperial class header for conversion Imperial - Metric units
main.cpp
Metric.cpp
Metric class definition for conversion Metric - Imperial units
Metric.h
Metric class header for conversion Metric-Imperial units

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Chapter 4

Class Documentation

4.1 Fraction::BadInput Class Reference

#include <Fraction.h>

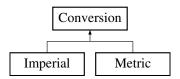
4.1.1 Detailed Description

@Exeption class for bad input

4.2 Conversion Class Reference

#include <Conversion.h>

Inheritance diagram for Conversion:



Classes

• class NegativeInput

Public Member Functions

- Conversion ()
 - default Constructor, Conversion class
- · Conversion (int value)
 - integer constructor, Conversion class
- Conversion (double value)
 - double constructor, Conversion class
- double getValue ()

Protected Member Functions

void setValue (double val)
 modifier for attribute value, Conversion class

Protected Attributes

• double value

4.2.1 Constructor & Destructor Documentation

4.2.1.1 Conversion() [1/3] Conversion::Conversion () default Constructor, Conversion class Parameters none

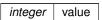
Returns

none

4.2.1.2 Conversion() [2/3]

integer constructor, Conversion class

Parameters



Returns

4.2.1.3 Conversion() [3/3]

double constructor, Conversion class

Parameters

none

Returns

none

4.2.2 Member Function Documentation

4.2.2.1 getValue()

```
double Conversion::getValue ( )
```

4.2.2.2 setValue()

modifier for attribute value, Conversion class

Parameters

none

Returns

void

Exceptions

NegativeInput() { exception thown if negative input detected for conversion. }

4.2.3 Member Data Documentation

4.2.3.1 value

double Conversion::value [protected]

4.3 Fraction::DivisionByZero Class Reference

Exception class for a division by zero.

#include <Fraction.h>

4.3.1 Detailed Description

Exception class for a division by zero.

4.4 Fraction Class Reference

#include <Fraction.h>

Classes

- class BadInput
- · class DivisionByZero

Exception class for a division by zero.

Public Member Functions

• Fraction ()

default Constructor, Fraction Class

• Fraction (int value)

integer constructor, Fraction Class

• Fraction (double value)

double constructor, Fraction Class

• Fraction (double num, double denum)

double, double constructor, Fraction Class

• Fraction (const Fraction &frac)

Default Constructor Fraction Class.

double getNumerator ()

accesor the current value of numerator

• double getDenominator ()

accesor to the current value of denominator

Fraction operator+ (Fraction const &frac)

Overload of plus operator for Fraction class.

• Fraction operator- (Fraction const &frac)

Overload of minus operator for Fraction class.

Fraction operator/ (Fraction const &frac)

Overload of division operator for Fraction class.

Fraction operator* (Fraction const &frac)

Overload of multiplication operator for Fraction class.

Friends

```
    std::istream & operator>> (std::istream &in, Fraction &frac)
        Overload of operator>> for Fraction class.
    std::ostream & operator<< (std::ostream &os, const Fraction &frac)
        Overload of operator << for Fraction class.</li>
```

4.4.1 Constructor & Destructor Documentation

4.4.1.1 Fraction() [1/5] Fraction::Fraction () default Constructor, Fraction Class Parameters none Returns

4.4.1.2 Fraction() [2/5]

none

integer constructor, Fraction Class

Parameters

```
integer number
```

Returns

none

4.4.1.3 Fraction() [3/5]

double constructor, Fraction Class

Parameters

double	number
--------	--------

Returns

none

4.4.1.4 Fraction() [4/5]

double, double constructor, Fraction Class

Parameters

double nomerator, double denominator of the fraction

Returns

none

4.4.1.5 Fraction() [5/5]

Default Constructor Fraction Class.

Parameters

none

Returns

none

4.4.2 Member Function Documentation

4.4.2.1 getDenominator()

```
double Fraction::getDenominator ( )
```

accesor to the current value of denominator

Parameters

none

Returns

double denominator

4.4.2.2 getNumerator()

```
double Fraction::getNumerator ( )
```

accesor the current value of numerator

Parameters

none

Returns

double numerator

4.4.2.3 operator*()

Overload of multiplication operator for Fraction class.

Parameters

constant reference to a Fraction object

Returns

Fraction object

4.4.2.4 operator+()

```
Fraction Fraction::operator+ (  Fraction \ const \ \& \ frac \ )
```

Overload of plus operator for Fraction class.

Parameters

```
constant reference to a Fraction object
```

Returns

Fraction object

4.4.2.5 operator-()

```
Fraction Fraction::operator- (
Fraction const & frac )
```

Overload of minus operator for Fraction class.

Parameters

```
constant reference to a Fraction object
```

Returns

Fraction object

4.4.2.6 operator/()

Overload of division operator for Fraction class.

Parameters

```
constant reference to a Fraction object
```

Returns

Fraction object

4.4.3 Friends And Related Function Documentation

4.4.3.1 operator <<

Overload of operator << for Fraction class.

Parameters

reference to an ostream object, constant reference to a Fraction object

Returns

reference to an ostream object

4.4.3.2 operator>>

```
std::istream& operator>> (
          std::istream & in,
          Fraction & frac ) [friend]
```

Overload of operator >> for Fraction class.

Parameters

reference to a Fraction object , reference to a Fraction object

Returns

reference to an istream object

4.5 Imperial Class Reference

```
#include <Imperial.h>
```

Inheritance diagram for Imperial:



Public Member Functions

• Imperial ()

default Constructor, Imperial Class

• Imperial (int value)

integer Constructor, Metric Class

• Imperial (double value)

double Constructor, Metric Class

• double milligramsToOunce ()

conversion milligrams to ounces

• double gramsToOunce ()

conversion grams to ounces

• double kilogramsToPounds ()

conversion kilograms to pounds

• double millimetersToInch ()

conversion millimeters to inches

• double centimetersToInch ()

conversion centimeters to inches

• double metersToInch ()

conversion meters to inches

• double metersToFeet ()

conversion meters to feet

• double metersToYard ()

conversion meters to yards

• double kilometersToYards ()

conversion kilometers to yards

double kilometersToMiles ()

conversion kilometers to miles

Additional Inherited Members

4.5.1 Constructor & Destructor Documentation

4.5.1.1 Imperial() [1/3]

```
Imperial::Imperial ( )
```

default Constructor, Imperial Class

Parameters

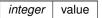
none

Returns

4.5.1.2 Imperial() [2/3]

integer Constructor, Metric Class

Parameters



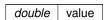
Returns

none

4.5.1.3 Imperial() [3/3]

double Constructor, Metric Class

Parameters



Returns

none

4.5.2 Member Function Documentation

4.5.2.1 centimetersToInch()

```
double Imperial::centimetersToInch ( )
```

conversion centimeters to inches

Parameters

Returns
double result;
4.5.2.2 gramsToOunce()
<pre>double Imperial::gramsToOunce ()</pre>
conversion grams to ounces
Parameters
none
Returns
double result;
4.5.2.3 kilogramsToPounds()
4.5.2.3 kilogramsToPounds() double Imperial::kilogramsToPounds ()
<pre>double Imperial::kilogramsToPounds ()</pre>
double Imperial::kilogramsToPounds () conversion kilograms to pounds
double Imperial::kilogramsToPounds () conversion kilograms to pounds Parameters
double Imperial::kilogramsToPounds () conversion kilograms to pounds Parameters none Returns
double Imperial::kilogramsToPounds () conversion kilograms to pounds Parameters none
double Imperial::kilogramsToPounds () conversion kilograms to pounds Parameters none Returns
double Imperial::kilogramsToPounds () conversion kilograms to pounds Parameters none Returns
double Imperial::kilogramsToPounds () conversion kilograms to pounds Parameters none Returns
double Imperial::kilogramsToPounds () conversion kilograms to pounds Parameters none Returns double result;
double Imperial::kilogramsToPounds () conversion kilograms to pounds Parameters none Returns double result; 4.5.2.4 kilometersToMiles()

Returns
double result;
4.5.2.5 kilometersToYards()
<pre>double Imperial::kilometersToYards ()</pre>
conversion kilometers to yards
Parameters
none
Returns
double result;
4.5.2.6 metersToFeet()
<pre>double Imperial::metersToFeet ()</pre>
conversion meters to feet
Parameters
none
Returns
double result;
4.5.2.7 metersToInch()
double Tamoniel
<pre>double Imperial::metersToInch ()</pre>
conversion meters to inches

Parameters none

Returns
double result;
4.5.2.8 metersToYard()
<pre>double Imperial::metersToYard ()</pre>
conversion meters to yards
Parameters
none
Returns
double result;
4.5.2.9 milligramsToOunce()
double Imperial::milligramsToOunce ()
conversion milligrams to ounces
Parameters
none
Returns
Returns double result;
double result;
double result; 4.5.2.10 millimetersToInch()
<pre>double result; 4.5.2.10 millimetersToInch() double Imperial::millimetersToInch ()</pre>

Returns

double result;

4.6 Metric Class Reference

#include <Metric.h>

Inheritance diagram for Metric:



Public Member Functions

• Metric ()

default Constructor, Metric Class

• Metric (int value)

integer Constructor, Metric Class

• Metric (double value)

double Constructor, Metric Class

• double ounceToMilligrams ()

conversion ounces to milligrams

• double ounceToGrams ()

conversion ounces to grams

double poundsToKilograms ()
 conversion pounds to kilograms

• double inchToMillimeters ()

conversion inches to millimeters

• double inchToCentimeters ()

conversion inches to centimeters

• double inchToMeters ()

conversion inches to meters

• double feetToMeters ()

conversion feet to meters

• double yardsToMeters ()

conversion yards to meters

• double yardsToKilometers ()

conversion yards to kilometers

• double milesToKilometers ()

conversion miles to kilometers

Additional Inherited Members

4.6.1 Constructor & Destructor Documentation

4.6 Metric Class Reference 23

4.6.1.1 Metric() [1	./3]
---------------------	------

```
Metric::Metric ( )
```

default Constructor, Metric Class

Parameters

none

Returns

none

4.6.1.2 Metric() [2/3]

```
Metric::Metric (
          int value )
```

integer Constructor, Metric Class

Parameters

integer value

Returns

none

4.6.1.3 Metric() [3/3]

double Constructor, Metric Class

Parameters

double value

Returns

4.6.2 Member Function Documentation

A 6 2.1 footToMotoro()
4.6.2.1 feetToMeters()
<pre>double Metric::feetToMeters ()</pre>
conversion feet to meters
Parameters
none
Returns
double result;
4.6.2.2 inchToCentimeters()
<pre>double Metric::inchToCentimeters ()</pre>
conversion inches to centimeters
Parameters
none
Returns
double result;
4.6.2.3 inchToMeters()
<pre>double Metric::inchToMeters ()</pre>
conversion inches to meters
Parameters
none

Returns
double result;
4624 inchToMillimetoro()
4.6.2.4 inchToMillimeters()
<pre>double Metric::inchToMillimeters ()</pre>
conversion inches to millimeters
Parameters
none
Returns
double result;
4.6.2.5 milesToKilometers()
<pre>double Metric::milesToKilometers ()</pre>
conversion miles to kilometers
Parameters
none
Returns
double result;
4 C O C
4.6.2.6 ounceToGrams()
<pre>double Metric::ounceToGrams ()</pre>
<pre>double Metric::ounceToGrams () conversion ounces to grams</pre>

Returns
double result;
4.6.2.7 ounceToMilligrams()
<pre>double Metric::ounceToMilligrams ()</pre>
conversion ounces to milligrams
Parameters
none
Returns
double result;
4.6.2.8 poundsToKilograms()
<pre>double Metric::poundsToKilograms ()</pre>
conversion pounds to kilograms
Parameters
none
Returns
double result;
4.6.2.9 yardsToKilometers()
<pre>double Metric::yardsToKilometers ()</pre>
conversion yards to kilometers
Parameters

Returns

double result;

4.6.2.10 yardsToMeters()

double Metric::yardsToMeters ()

conversion yards to meters

Parameters

none

Returns

double result;

4.7 Conversion::NegativeInput Class Reference

#include <Conversion.h>

4.7.1 Detailed Description

@Exception class for a negative input

Chapter 5

File Documentation

5.1 Conversion.cpp File Reference

Conversion class definition for conversion of units.

```
#include "Conversion.h"
```

5.1.1 Detailed Description

Conversion class definition for conversion of units.

Version

1.0

Date

04/28/2020

Author

Frederick Vitug
Mohammed Mazous
Robert Hartnett
Luis Silva @title Conversion Class

5.2 Conversion.h File Reference

Conversion class header for conversion of units.

```
#include <string>
#include <cmath>
```

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Classes

- class Conversion
- · class Conversion::NegativeInput

5.2.1 Detailed Description

Conversion class header for conversion of units.

Version

1.0

Date

04/28/2020

Author

Frederick Vitug

Mohammed Mazous

Robert Hartnett

Luis Silva @title Conversion Class

5.3 Fraction.cpp File Reference

```
#include "Fraction.h"
```

Functions

```
• std::istream & operator>> (std::istream &in, Fraction &frac)
```

Overload of operator >> for Fraction class.

• std::ostream & operator<< (std::ostream &os, const Fraction &frac)

Overload of operator << for Fraction class.

5.3.1 Function Documentation

5.3.1.1 operator<<()

Overload of operator << for Fraction class.

Parameters

reference	to an ostream object, constant reference to a Fraction object
-----------	---

Returns

reference to an ostream object

5.3.1.2 operator>>()

```
std::istream& operator>> (
          std::istream & in,
          Fraction & frac )
```

Overload of operator >> for Fraction class.

Parameters

Returns

reference to an istream object

5.4 Fraction.h File Reference

```
#include <iostream>
#include <cmath>
#include <string>
#include <stdlib.h>
#include <algorithm>
```

Classes

- class Fraction
- class Fraction::DivisionByZero

Exception class for a division by zero.

• class Fraction::BadInput

Macros

• #define FRACTION_H

32 File Documentation

5.4.1 Macro Definition Documentation

5.4.1.1 FRACTION_H

#define FRACTION_H

5.5 Imperial.cpp File Reference

Imperial class definition for conversion Imperial - Metric units.

```
#include "Imperial.h"
```

5.5.1 Detailed Description

Imperial class definition for conversion Imperial - Metric units.

Version

1.0

Date

04/28/2020

Author

Frederick Vitug
Mohammed Mazous
Robert Hartnett
Luis Silva @title Imperial Class

5.6 Imperial.h File Reference

Imperial class header for conversion Imperial - Metric units.

```
#include "Conversion.h"
```

Classes

· class Imperial

5.6.1 Detailed Description

Imperial class header for conversion Imperial - Metric units.

Version

1.0

Date

04/28/2020

Author

Frederick Vitug

Mohammed Mazous

Robert Hartnett

Luis Silva @title Imperial Class

5.7 main.cpp File Reference

```
#include <iostream>
#include <iomanip>
#include "Fraction.h"
#include "Imperial.h"
#include "Metric.h"
```

Functions

- void displayMenu ()
- void launchOption (int option)
- void scalingFraction ()
- void displayConversionMenu ()
- void conversion ()
- void metricConverter (int option, double value)
- void imperialConverter (int option, double value)
- int main ()
- Fraction readFraction ()

5.7.1 Function Documentation

5.7.1.1 conversion()

```
void conversion ( )
```

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5.7.1.2 displayConversionMenu()

```
void displayConversionMenu ( )
```

5.7.1.3 displayMenu()

```
void displayMenu ( )
```

5.7.1.4 imperialConverter()

```
void imperialConverter (
          int option,
           double value )
```

5.7.1.5 launchOption()

5.7.1.6 main()

```
int main ( )
```

5.7.1.7 metricConverter()

```
void metricConverter (
                int option,
                double value )
```

5.7.1.8 readFraction()

```
Fraction readFraction ( )
```

5.7.1.9 scalingFraction()

```
void scalingFraction ( )
```

5.8 Metric.cpp File Reference

Metric class definition for conversion Metric - Imperial units.

```
#include "Metric.h"
```

5.8.1 Detailed Description

Metric class definition for conversion Metric - Imperial units.

Version

1.0

Date

04/28/2020

Author

Frederick Vitug

Mohammed Mazous

Robert Hartnett

Luis Silva @title Metric Class

5.9 Metric.h File Reference

Metric class header for conversion Metric-Imperial units.

```
#include "Conversion.h"
```

Classes

• class Metric

36 File Documentation

5.9.1 Detailed Description

Metric class header for conversion Metric-Imperial units.

Version

1.0

Date

04/28/2020

Author

Frederick Vitug

Mohammed Mazous

Robert Hartnett

Luis Silva @title Metric Class

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