

A problem has been detected and windows has been shut down to prevent damage to your computer.

If this is the first time you've seen this Stop error screen, restart your computer. If this screen appears again, follow these steps:

Check to be sure you have adequate disk space. If a driver is identified in the Stop message, disable the driver or check with the manufacturer for driver updates. Try changing video adapters.

Check with your hardware vendor for any BIOS updates. Disable BIOS memory options such as caching or shadowing. If you need to use Safe Mode to remove or disable components, restart your computer, press F8 to select Advanced Startup Options, and then select Safe Mode.

Technical information:

*** STOP: 0x0000007E (0xC0000005,0xF88FF190,0x0xF8975BA0,0xF89758A0)

*** EPUSBDSK.sys - Address F88FF190 base at FF88FE000, datestamp 3b9f3248

Beginning dump of physical memory

Project Report - Kathryn Schadow Pohl
OOP - object-oriented programming

OOP - object-oriented programming

CONTENT

Introduction

Basics in OOP

Example:

Joining Tool

Discussion

Conclusion

Marks & Points (Umweltinformationstechnologie)

- software for environmental science, agriculture and forestry

objective during my project

- improve programming skills

object of interest

- botanical gardens weather stations

OOP - object-oriented programming

CONTENT

classes, objects, methods

Introduction

Class: abstraction of a thing including its
× characteristics (attributes or properties)
× behaviour (methods, features)
class is the blueprint we work with

Basics in

OOP

e.g. class *dog*
attributes: 4 legs, tail, colour, breed
methods: sit, bark, walk

Example:

Object: instance (copy) of blueprint

Joining Tool

e.g. object *Lassie*
state: 4 long legs, long tail, white and brown, collie
methods: sit, bark, walk

Discussion

Methods: abilities of an object (functions)

Conclusion

e.g. *Lassie.sit()*
Lassie.bark()
Lassie.save(child)

OOP - object-oriented programming

CONTENT

message passing, encapsulation, inheritance

Introduction

Message passing: an object send a message to another object
e.g. *Timmy.tell(Lassie.sit())*

Basics in

OOP

Encapsulation: object conceals functional details of class
e.g. *villain.tell(Lassie.sit())*
villain is not a FRIEND of Lassie

Example:

Joining Tool

Inheritance: subclass inherits attributes and methods of parent class

Discussion

e.g. subclass *Collie*
state: legs, tail, colour
methods: sit, bark, walk, jump

Conclusion

Lassie inherits from subclass *Collie* and class *dog*

OOP - object-oriented programming

CONTENT

Introduction

Basics in OOP

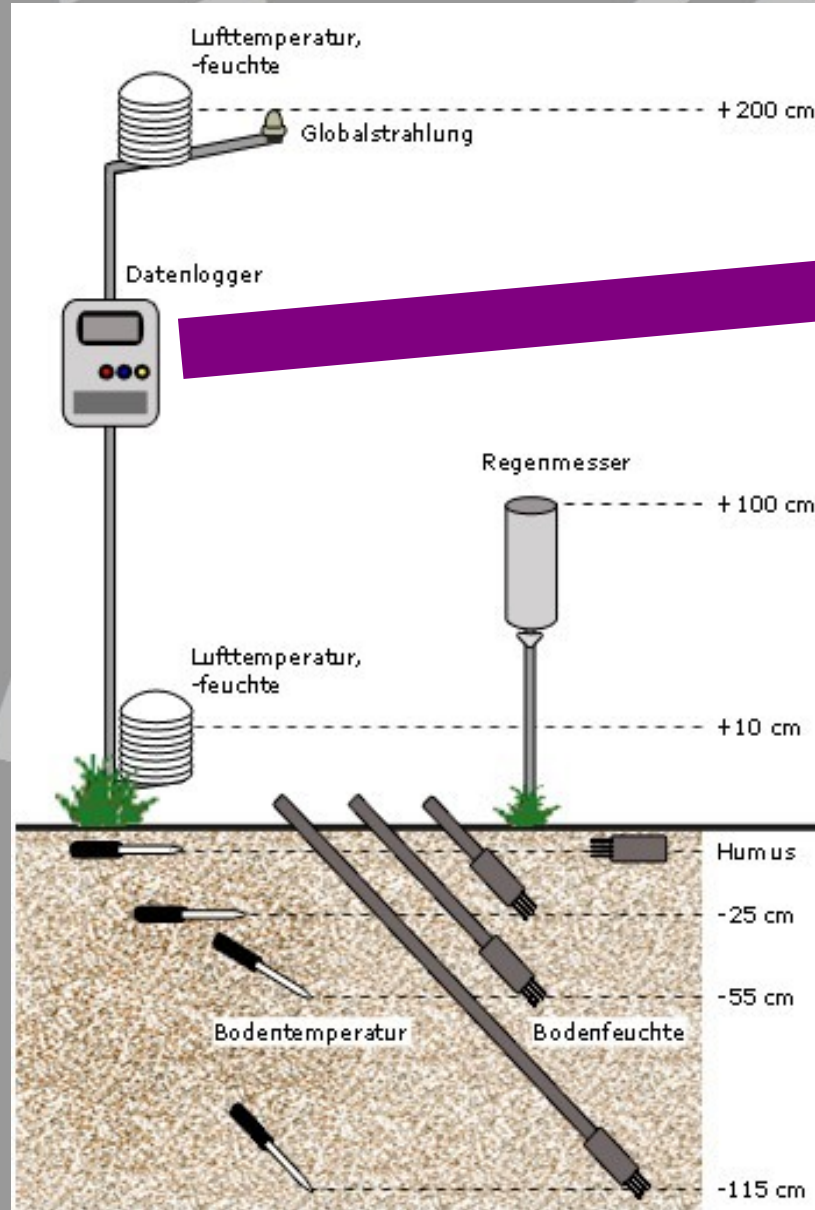
Example:

Joining

Tool

Discussion

Conclusion



text files

- × one for every station
- × one per data transfer

→ up to 45 text files
for one station

$$E = mc^2$$

OOP - object-oriented programming

CONTENT

Introduction

Basics in OOP

Example:

Joining
Tool

Discussion

Conclusion

What is the task of the *Joining Tool*

- to determine which text file is a member of one weather station
- to sort the text files by the last part of name space (continuous number)
- to get the header for the new file
- to check if all text files from one station have the same amount of columns
- to sort data rows by date
- to remove data rows with equal date
- to write a new file with header and edited data rows

$$E = mc^2$$

$$I =$$

OOP - object-oriented programming

CONTENT

Introduction

Basics in OOP

Example:

Joining

Tool

Discussion

Conclusion

Namespace and classes

- System
 - *String* class
 - *Int32* Structure
 - *Array* class
- System.Collections
 - *ArrayList* class
- System.IO
 - *File* class
- System.Windows.Forms
 - controls (buttons, numeric up down, text boxes)
 - common dialogue box (FolderBrowserDialog)

$$E = mc^2$$

I =

OOP - object-oriented programming

CONTENT

Introduction

Basics in OOP

Example:

Joining

Tool

Discussion

Conclusion

Methods

- GetAllFileNamesStartingWith
- SortFileNames
- ReadAllHeaderRows
- CheckEqualAmountOfColumns
- ReadAllDataRows
- RemoveEqualDate
- WriteNewFile

OOP - object-oriented programming

CONTENT

Introduction

Basics in OOP

Example:

Joining

Tool

Discussion

Conclusion

Joining Tool

SET Mainfolder FIRST

Current Directory:

Files of mainfolder will be displayed here

While running the program progress and errors will be displayed

Please select or insert a search string
(Parts of the filename the files you want to combine have in common.)

3 Please select, how many lines your Header has.

Date and Time Specification

Please select the columns for date and time

Date: column Time: column

Please insert filename for new file

Start Cancel

Start button will be enabled if mainfolder and search string are set

OOP - object-oriented programming

CONTENT

Introduction

Basics in OOP

Example:

Joining Tool

Discussion

Conclusion

Each purpose has its language

A program can never be completed

$$E = mc^2$$

$$E = mc^2$$

$$I =$$

OOP - object-oriented programming

CONTENT

Introduction

Basics in OOP

Example:

Joining Tool

Discussion

Conclusion

good opportunity to learn something

about programming

&

what else is needed

to stand one's ground in the working world

$$E = m c^2$$

$$E = m c^2$$

$$I =$$

Resources

CONTENT

Introduction

Basics in OOP

Example:

Joining Tool

Discussion

Conclusion

http://searchsoa.techtarget.com/sDefinition/0,,sid26_gci212681,00.html
http://en.wikipedia.org/wiki/Programming_paradigm
http://en.wikipedia.org/wiki/Procedural_programming
http://en.wikipedia.org/wiki/Object-oriented_programming
personal discussion with Mr. Marks