Programming

Optimisation and Operations Research algorithms

with Julia

Prof. Dr. Xavier Gandibleux

Université de Nantes
Département Informatique – UFR Sciences et Techniques
France

Lesson 6 – May-June 2021

Data structure

Composite structures

Composite structures (1/4)

Defining a structure:

```
mutable struct Mystructure
    var1
    var2::type          # var2 must be of type type
end
```

```
julia> mutable struct MyOwnStruc
           x
           y::Float64
       end
```

if the `mutable` keyword is omitted

$\Rightarrow$ object is not mutable i.e. its fields can no be changed

Composite structures (1/4)

Constructing an object by initialising it:

```
julia> myObject = MyOwnStruc("something", 3.1415)
```

Accessing to the field of an object:

```
julia> field1 = myObject.x                    # "something"
```

Working on it!

Review and exercises

(notebook)