

Assignment 1

- create a downloader of images from web
 - a program that
 - obtains a URL as a command line parameter
 - downloads the URL (suppose that it is a html page)
 - downloads all the referenced images from the page
 - use regular expressions for finding images
 - ``
 - e.g., test the program on the web of the course

Assignment 2

- Create a program that prints a simple “formatted! calendar for a given month
 - no arguments – for the current month

```
December 2020
Su Mo Tu We Th Fr Sa
      1  2  3  4  5
  6  7  8  9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31
```

- with arguments – month year (e.g. 1 2017)

```
January 2017
Su Mo Tu We Th Fr Sa
  1  2  3  4  5  6  7
  8  9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
```

Assignment 3

- implement parallel downloading to the downloader (Assignment 1)
 - choose a suitable implementation
 - via threads or tasks for an executor or...
 - limit a number of used threads
 - e.g., by number of available processors

Tests...

Test 1

- Is it possible (without usage of the reflection API) to create another instance of the class (i.e. a different instance than in the field INSTANCE)?

```
public class Dog implements Serializable {  
  
    public static final Dog INSTANCE = new Dog();  
  
    private Dog() { }  
  
    public String toString() {  
        return "Woof";  
    }  
}
```



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