

Inf2a: Lab 1 (Solutions)

Introduction to Python

EXERCISE 1

Create a regular expression that checks if a string starts with 3 binary digits (and test it: 010asda must be recognised, while 1aa must be rejected)
`re.match("[0|1][0|1][0|1]+", "010adsa")`

Using a regular expression, write a python statement that ends all the words that end with "ly" in strings (and test it, for example using the sentence "it is likely to happen rarely")
`re.findall("[\w]+ly", "it is likely to happen rarely")`

Using a regular expression, write a python statement that replaces all the words that start with "wh" with "WH-word" (and test it, for example in the sentence "who should do what?")
`re.sub("wh\w+", "WH-word", "who should do what?")`

EXERCISE 2

```
>>> lst = ['how', 'why', 'however', 'where', 'never']
>>> for i in lst:
...     print "*", i[:2], i
```

EXERCISE 3

```
>>> lst = ['how', 'why', 'however', 'where', 'never']
>>> for i in lst:
...     if i[:2]=="wh": print "*", i[:2], i
...     else: print " ", i[:2], i
...
```

EXERCISE 4

```
>>> lst = ['how', 'why', 'however', 'where', 'never']
>>> prefix = "wh"
>>> def checkPrefix(lst, prefix):
...     for i in lst:
...         if i[:2]==prefix: print "*", i[:2], i
```

```
...     else: print " ", i[:2], i
...
>>> checkPrefix(lst,prefix)
```

EXERCISE 5

Copy the code from Ex 4 and save to a file called checker.py

```
>>> lst = ['how', 'why', 'however', 'where', 'never']
>>> import checker
>>> checker.checkPrefix(lst,"wh")
```