Preparation questions:

1.

3.5 + 4	7.5	Floating point
015 + 0x255	610	Integer
99999999	999999990	Integer
(1+2j)*2	2 + 4j	Complex
1 + 2j * 2	1 + 4j	Complex

2.

- a. TypeError: 'str' object does not support item assignment
- b. grain
- c. we access the string at the mentioned index from its end
- 3. IndexError: list assignment index out of range

4.

```
|>>> car1 = {'Model': 'Fabia', 'Maker': 'Skoda', 'Year': 2006}
|>>> car2 = {'Model': '3', 'Maker': 'Mazda', 'Year': 2010}
|>>> car_list = [car1, car2]
|>>> car_list
|[{'Model': 'Fabia', 'Maker': 'Skoda', 'Year': 2006}, {'Model': '3', 'Maker': 'Mazda', 'Year': 2010}]
|>>>
```

6. TypeError: 'tuple' object does not support item assignment

7.

mmm...

Maybe x is not so small

Changing x to 100 will result in printing: x is large!

8.

- a. Done
- b. All values are not greater than 4.Done.
- c. Same as section b
- d. In python 2 range(start, end) returns the list [start, ..., end-1] In python 3 range(start, end) returns a sequence (lazy evaluated) from start to end-1

9.

1 is odd

2 is even

. . .

7 is odd

10.

The upStam.txt file contain the upper-case version of the stam.txt file

11.

an	This is <u>an</u> isl <u>an</u> d
\ban	This is <u>an</u> island
\Ban	This is an isl <mark>an</mark> d

12.

a.

$$(\d{2} -)?\d{7}$$

b.

$$http: \backslash / \backslash / (\backslash w + \backslash .) + \backslash w +$$

13.

a.

$$<(\backslash w)>.+?<\backslash/\backslash 1>$$

b.

- i) $((\w+.?\w+)+)@\1$
- ii) $(\w+) \1 \1$
- iii) $(\w+)(\w+)[\1\2]$