

# Exercise\_1\_solutions

January 5, 2019

1.

```
In [0]: 7**4
```

```
Out[0]: 2401
```

2.

```
In [1]: s = "Hi there Sam!"
        s_split = s.split()
        s_split[2] = "dad!"
        print(" ".join(s_split))
```

```
Hi there dad!
```

3.

```
In [0]: planet = "Earth"
        diameter = 12742
        print("The dimeter od {} is {} kilometers.".format(planet, diameter))
```

```
The dimeter od Earth is 12742 kilometers.
```

4.

```
In [0]: lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
        print(lst[3][1][2][0])
```

```
hello
```

5.

```
In [0]: d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}
        print(d['k1'][3]['tricky'][3]['target'][3])
```

```
hello
```

6.

```
In [0]: # krotka nie moe by modyfikowana (immutable), inaczej jest w przypadku listy
t = (1,)
t[0] = 2
```

-----

TypeError

Traceback (most recent call last)

```
<ipython-input-6-cdb7ee61d5c5> in <module>()
    1 t = (1,)
----> 2 t[0] = 2
```

TypeError: 'tuple' object does not support item assignment

7.

```
In [0]: def grab_email(email):
        email_split = email.split('@')
        return email_split[1]

        print(grab_email('super_user@ee.pw.edu.pl'))
```

ee.pw.edu.pl

8.

```
In [0]: # zrozumiam, i sowo 'car' zakoczone znakiem interpunkcyjnym jest pomijane
        # trzeba natomiast uwzgladni moliwo wystpowania wielkich liter
def isCar(input_str):
    return True if 'CAR' in input_str.upper().split() else False

print(isCar('The statement contains world car'))
print(isCar('Here it is absent'))
```

True

False

9.

```
In [0]: # przyjem podobne zaoenia jak w podpunkcie 8
def countCar(input_str):
    return input_str.upper().split().count('CAR')

print(countCar('This car runs faster than the other car dude!'))
```

10.

```
In [2]: seq = ['soup', 'dog', 'salad', 'cat', 'great']
        filter_seq = list(filter(lambda s: s[0]=='s', seq))
        print(filter_seq)
```

```
['soup', 'salad']
```

11.

```
In [0]: def caught_speeding(speed, is_birthday):
        if(is_birthday):
            speed -= 5

        if(speed <= 60):
            return "No ticket"
        elif(speed <= 80):
            return "Small ticker"
        else:
            return "Big ticket"

        print(caught_speeding(81,True))
        print(caught_speeding(81,False))
```

```
Small ticker
```

```
Big ticket
```