# Modul 1 video 2

name = 'gregor'

id(name) liefert die adresse im speicher

hex(id(name))

name.\_\_repr\_\_ liefert die adresse des objekts

## Strings

name = 'gregor' , "gregor",

raw-string r'gregor' ohne escapesequences

""" für kommentare oder text mit formatierung über mehrere zeilen

string in unicode u'gregor'

str() macht ascii, unicode() macht unicode

strings immutable

concat s1+s2

'a'\*50 = 50 a's

name[2] zeichen an der stell2

name[5:10] alle zeichen von 5 bis 10

name[5:10:2] jeder zweite

string.find() -1 if not index if yes

string.replace()

string.split() default whitespaces, can be given as input

string.replace(what, replacement) but string are immutable copy is replaced

### String formatting

"hack this IP: %s" %ip

"hack %S with IP %s"(domain, ip)

"hack %(domain)s with ip%(ip)s" %{"domain":"sdfk", "ip":"19.168.1.10"}

## Lists

mylist =[1,2,3] [1,'vivek','spse',2.5] =[1,[1,2,'hello'],[3,4]]

len(mylist)

list[2] third object

list.append(sd)

list.reverse()

list.pop() pops last item

extend([])

insert(index,item)

del list[index]

# Modul 1 Video 3

## tupel

immutable lists

tuple(list)

list(tupel)

runde klammern

### sequence unpacking

videottitle, runningtime, upvotes, downvotes = tuple

## sets

unordered collection of unique objects

b = set(list)

a = list(set)

union = a|b, intersection : a&b, difference a-b

## dictionarys

unorders key value pair

keys are immutable, value can change

dict={}

dict['name'] ='vivek'

dict(name='vivek', age='31')

dict = {'name': 'vivek', 'age':31}

dict.has\_key(key)

key in dict true or false

dict.values ()

dict.keys()

dict.items() list of tuple of items

dict.get('age')

dict['location'] = 'switzerland'

del dict['location']

dict.clear()

## Getting help on methods

dir(dict) list of all attributes

help(dict.has\_key) help to the method

# Module Video4

## Conditional Statements

if test:

do

elif test2:

do

else:

do

while statement\_is\_true:

do

break: get out of innermost loop

continue: start the next loop

pass: placeholder

else works with while exercise with example

for item in object:

do