

python1 - shashank

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1 Python 3.6

1.1 Learning session 1

1.1.1 1. strings

```
In [ ]: string1='shashank is teaching python'
In [ ]: #splitting the string

        var=string1.split(' ')
        print(var)
        print(type(var))
In [ ]: print(var[0][1:3])
In [ ]: #if we want to slice the string on the basis of element
        var='shashank is working on python shell version 3'
In [ ]: start=var.find('w')
In [ ]: end=var.find('ver')
In [ ]: var[start:end]
In [ ]: #taking a string's alphabet into a string
In [ ]: mylist=list(var)
In [ ]: display(mylist)
```

1.1.2 Lists

```
In [ ]: tutoriallist=[]
In [ ]: tutoriallist.append('shawak')
In [ ]: tutoriallist
In [ ]: #access of lists
In [ ]: mylist=list(range(1,10,2))
In [ ]: mylist
```

1.1.3 dictionary

```
In [ ]: mydict=dict(zip(list(range(1,10,2)),list(range(11,20,2))))

In [ ]: mydict

In [ ]: pprint(mydict,indent=1)

In [ ]: for k,v in mydict.items():
        print (k,v)

In [ ]: print (mydict.items())

In [ ]: print(mydict.keys())

In [ ]: print (mydict.values())

In [ ]: #creating dictionary again

In [ ]: newdict=dict(zip(mydict.keys(),mydict.values()))

In [ ]: newdict

In [ ]: #dictionaries with lists as values

In [ ]: from pprint import pprint

In [ ]: mydict={'name':['shashank','rahul','manoj'],'id':[1,2,3]}

In [ ]: for k,v in mydict.items():
        for i in range(len(mydict)+1):
            print (k,v[i])
```

1.1.4 tuples

```
In [ ]: tup=(1,2,3)

In [ ]: tup[1]

In [ ]: from collections import namedtuple

In [ ]: tup1=namedtuple('tup1',['name','id'])

In [ ]: new=tup1('shashank','826')

In [ ]: new.name

In [ ]: new.id
```