## memory organization1

## July 8, 2017

```
In [1]: s1="python"
        s2="program"
        s3=s1
        s4="python"
        print s1, s3, s4
        print id(s1),id(s3),id(s4)
python python python
139936187280192 139936187280192 139936187280192
In [2]: s1="python "
        s2="program"
        s3=s1
        s4="python "
        print s1, s3, s4
        print id(s1),id(s3),id(s4)
python python python
139935957606832 139935957606832 139935957606544
In [3]: 11=[1,2,3,4]
        12=[5,6,7,8]
        13=11
        14=[1,2,3,4]
        print id(11), id(13)
        print id(14)
139936127215376 139936127215376
139936127215088
In [4]: a=10
        a = 20
In [5]: print a
```

```
20
```

```
In [6]: a=10
        a = a + 20
        print a
30
In [8]: 1=[1,2,3,4]
        print id(1),1
        1.append(10)
        print id(l),l
139935957427552 [1, 2, 3, 4]
139935957427552 [1, 2, 3, 4, 10]
In [9]: 11=[1,2,3,4]
        12=11
        13=[1,2,3,4]
        11.append(10)
        print 11
        print 12
        print 13
[1, 2, 3, 4, 10]
[1, 2, 3, 4, 10]
[1, 2, 3, 4]
In [10]: 11=[1,2,3,4]
         12=11
         13=[1,2,3,4]
         11=[1,2,3,4]
         11.append(10)
         print 11
         print 12
         print 13
[1, 2, 3, 4, 10]
[1, 2, 3, 4]
[1, 2, 3, 4]
In [11]: a=10
         a = a + 20
         s1="python"
         s2=s1.replace('p','z')
         print s2
         print s1
```

```
zython
python
In [12]: s1="python"
         s2=s1.replace('p','z')
         print s2
         print s1
zython
python
In [14]: s1="python"
         s2=s1
         s3=s1.replace('p','z')
         print s1
         print s2
        print s3
python
python
zython
In [ ]:
```