```
# -*- coding: utf-8 -*-
Created on Wed Sep 30 09:26:51 2015
@author: hina
Reference: https://docs.python.org/3/tutorial/index.html
print ()
# strings can be concatenated using +
print ("left string > " + " < right string")</pre>
lstr = "CIS"
rstr = "509"
lrstr = lstr + rstr
print (lrstr)
print ()
# strings can be repeated using *
print ("repeat..."*3)
print ()
# strings can be counted from the Left using +ve indices, starting with 0
word = "Python"
print (word[0])
print (word[1])
print (word[2])
print (word[3])
print (word[4])
print (word[5])
print()
# strings can be counted from the right using -ve indices, starting with -1
print (word[-1])
print (word[-2])
print (word[-3])
print (word[-4])
print (word[-5])
```

```
print (word[-6])
print()
# strings can be sliced with [startIndx:endIndx]:
# - startIndx is included and endIndx is excluded
# - startIndx must be < endIndx, else empty string is returned</pre>
# - if a slice index is out of range, python will go as far as it can
print (word[0:2])
print (word[2:6])
print (word[2:10])
print (word[-3:-2])
print (word[-3:-6])
print (word[-3:6])
print ()
# omitted startIndx is defaulted to 0, omitted endIndx is defaulted to strlen
# this ensures anyString[:n] + anyString[n:] = anyString
print (word[:2])
print (word[4:])
print (word[-2:])
print (word[:4] + word[4:])
print ()
# Python strings cannot be changed — they are immutable
# attempting to assign to an index position will result in an error
\#word[0] = 'J'
# if you need a different string, you should just create a new one
newword = 'J' + word[1:]
print (newword)
print ()
# the Python standard library provides many different methods to manipulate srtings
# https://docs.python.org/3/library/stdtypes.html#string-methods
# below are ones that are most frequently used
# Length of string
print (len('Python'))
```

```
# check if substring is in string
print ('th' in 'Python')
# find index of substring in string
print ('Python'.find('th'))
# check if string start with substring
print ('Python'.startswith('Py'))
# check if string ends with substring
print ('Python'.endswith('Py'))
# convert string to lowercase
print ('PYTHON'.lower())
# convert string to upppercase
print ('python'.upper())
# remove leading and trailing blanks
print ('
           python '.strip())
# split string using specified character as delimiter
print ('1, 2, 3, 4, 5'.split(','))
# join iterable elements with specified character as delimiter
names = ['john', 'jane', 'sandra', 'mike', 'scott']
sep = ',
print (sep.join(names))
# split string at line feeds and carriage returns
print ('there \n are \n four \n lines'.splitlines())
print ()
# test
myWord = "CIS 509 Classroom"
print (len(myWord))
print (myWord[0:7])
print (myWord[:6] + myWord[6:])
print (myWord[:100])
print (myWord[100:-5])
print (myWord[-9:100])
#print (myWord[])
print ()
```