python_assignment

June 11, 2019

1 Questions to practice

1.1 Questions

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1. Calculate length of a list
   2 . which will create a list: - some_list = list() - some_list = list([1, 2, 3])
                                                                                    -some list
  = [1, 2, 3] - some_list = list(1, 2, 3)
   3 . let a list be
                       s = [1, 3, 2, 1, 5, 3, 9] . usemin(s), max(s), sum(s). also calculate the
average of the list.
   4 .useimport random and callrandom.shuffle(some list) to shuffle the contents of the list
some list.
   5. print the last 3 elements of a list without using for loops.
   6 . let some_list = [1, 2, 3, 6, 5, 1, 7, 3] . what is the output of: some_list[:-1]
some list[-4:-2]
                  - some_list[2:-3]
   7. Let this section of code
    def extendList(val, list=[]):
         list.append(val)
         return list
    list1 = extendList(10)
    list2 = extendList(123, \Pi)
    list3 = extendList('a')
    print "list1 = %s" % list1
    print "list2 = %s" % list2
    print "list3 = %s" % list3
     What should be the output?
     Why is it different?
     How to fix this?
   8 . given some code using classes:
    class A():
         x = 1
```

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a = A()
    print a.x
    b = [A()] * 10
    for ix in b:
        print ix.x
    b[2].x = 5
    for ix in b:
        print ix.x
     Why is output different from expected?
     How can we fix this problem?
   9 . usesorted in lists. consider the code below:
class Obj:
    def init (self, a=0, b=1):
        self.a = a
        self.b = b
if __name__ == "__main__":
    objects = [Obj(1, 2), Obj(5, 4), Obj(7, 3),
                 Obj(11, 42), Obj(8, 0), Obj(5, 9)]
     Sort the above list of objects using > a as key > b as key
   10 . List and string slicing
s = "This is introduction to python for web development"
# Obtain each word of the string in a list.
   11 . Print Pyramid patterns using for and while loops
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   12. What will the following code print
some string = "abacdaegakialaop"
print some_string.split('a', 2)
```