CSCI 220 In-class Assignment

Interaction of strings and loops.

1. Write the output of the following code. Some of the code results in errors. [Notice what a BAD variable name i can be.] Assume that this string assignment has been executed first:

```
s = "ABCDE"
a. for i in s:
     print (i, end = " ")
    ABCDE
b. for i in range(s):
     print (i, end = " ")
                        5 is a string and range
needs not
     Frror
c. for i in len(s):
     print (i, end = " ")
      Error
                     Jut is not a sequence
d. for i in range(len(s)):
     print (i, end = " ")
    01234
e. for i in range(len(s)):
    print (s[i], end = "")
    ARCDE
f. for i in s:
    print (s[i], end = "")
  Error cannot have a strong be an index
```

2. Assume:

values = ["Ada", 17, 7, 2.5, "Lovelace", 9,
$$-3$$
]

What is the value of x after each of the following statements?

$$b.x = len(values)$$
 2

$$c.x = values[4:]$$
 ['Loveloce', 9, -3]

e. x = values[1:4] + values[5:]
$$[17, 7, 2.5, 9, -3]$$

$$f. x = values[1:3] * 2 [17, 7, 17, 7]$$

3. Assume

What is the value of x after each of the following statements?

$$a. x = len(text)$$

$$b. x = text[2] + text[8] ^{t} 50^{t}$$

c.x = text[:3]
$$1175$$

$$e.x = text[2:5] * 3$$
 Seeseesee

4. Write four functions:

- 1. getGrades() → list of grades: Ask the user for the number of grades. Then build a list of all grades input by user.
- averageGrades(grades) → float representing average of grades: Accepts a list of grades and returns the average of that list.
- 3. increaseScores(grades, adjustAmount): Void function. Accepts a list of grades and a curve amount and adjusts each grade in the list by the curve amount.
- 4. main(): Void function to test above functions

	We did not go over 4.0	
40	def getGrades()=	основник в дом в « «по специя» с «соокру».
ία	der gerbrades ()-	
	numbracles = eval (mput ("Num Grades?"))
	grades = []	
	for i m range (Num Grades):	
	grades append (eval (mput ("Enter grades:	(()
	addraga to the man and a state of	
	/ oreturn = grades	Contract out vising with even traction
	Lolal - StreetDam	
1:0 0	Lotot moder	
4-0	def main():	
	0=10101	
	sceses = get Grades ()) M/ 101	
	prm+(scares)	
	Odgreezyorks = agreeze aby	
4.6	def averagebreides (grades)	
	in a college of a second	
	total =0 Lotal moles	
	/ for grade n grades	
	fotal += grade	
/		
	aug = total /lengrandes)	
	return aug	
000		
4-0	det main():	
	average = averagebrades (scores)	
	print (average)	
	1	