Name:	ID:	Signature:



## **İSTANBUL TECHNICAL UNIVERSITY**

Department of Computer Engineering

BLG103E - Introduction to Information Systems - Fall 2015

Quiz 2 Question & Answer Sheet

**Duration**: 40 minutes. There are <u>12</u> questions.

Rules: - Not open-book. No extra notes or papers are allowed.

- Cellphones must be put away. Calculators are not allowed.



Name a way that name-val	ue pairs are used in H	HTML:height="20px"

Name a way that name-value pairs are used in CSS: height:20px;

2.

In a LibreOffice Calc spreadsheet, the following contents are entered in the following cells:

	A	В
1	=B1*B2	5
2	=\$B\$2+\$B\$1	6

Fill in the resulting displayed contents of the cells A1,A2, B1 and B2:

	A	В
1	30	5
2	11	6

3.

With the following LibreOffice Calc spreadsheet open, I do the following steps:

- 1. I select all of the visible cells.
- 2. From the menu I select *Data... Sort* and from the resulting dialogue choose *Column C* and *Descending* and click *OK*.
- 3. From the menu I select *Data... Filter... Standard Filter* and, for the *Field name* I choose *Column B*, next to which I change the *Condition* to = and under *Value* I write 40.

	A	В	C
1	Lemonade	40	1.50
2	Tea	40	1.60
3	Slime Cordial	180	0.90

Fill in the expected resulting spreadsheet below.

	A	В	C
1	Tea	40	1.60
2	Lemonade	40	1.50
3			



Name:		ID:		Signature: _		
4.						
In spreadsheets, to (if part of the example a part of an anim	imple matches th	•			-	-
Example	Expression	Relative address	Absolute address	Function	Formula	Range
5+6	<b>✓</b>					
=5+6					<b>✓</b>	
В6		<b>✓</b>			_	
=B6+5					<b>✓</b>	
RAND()				<b>✓</b>		
\$A\$5:\$B\$6			<b>✓</b>		_	<b>✓</b>
=ABS(B3)					<b>✓</b>	
Password	•	ype="text"	_ name="user name="pw" / <u>Show"</u> />			
<b>5.</b> Considering the a	ŕ			parts does in a s	hort sentence.	
action="/log	gin": sends	nto back to serv	er			
type="text"	tells that ent	ry is text				
value="Show	: Writes "Sho	w" on the butto	n			
<b>6.</b>						
Complete the follogiven previously		ode to extract th	e user-name and	password entere	d by the user in the	he HTML form
form_dat	ta = reques <sup>-</sup>	t.POST				
username	e = form_da <sup>.</sup>	ta[user	]			
password	d = form_da <sup>-</sup>	ta[pw	]			

Name:	ID:		Sign	ature:	
7.					
For each Python expression	on on the left (each	n of which you	can assume is ru	ın in a fresh Pyt	hon session), dete
whether it is likely to resu					
Example	ValueError	TypeError	SyntaxError	NameError	No Error
int) 5(+)'5'			<b>/</b>		
int('A') + 5	<b>✓</b>				
str(5) + 5		<b>✓</b>			
str('5') + 5		<b></b>			
int('5') + 5					<b>✓</b>
str(A) + 5				<b>✓</b>	
Tick the cells for which the	ne expression on th	ne left of the ro	w results in the	error at the top of	of the column.
8.					
In Python, functions are u	seful mostly becau	use:			
-	efinition functional		useful.		
<b>B</b> They merge th		,			
	od way of making t	the indentation	clearer.		
	a bridge between I				
E They are a goo	_	-		twice	
	a bridge between F	_			
Circle one letter.	011 <b></b> 80 0 00 11 1	<i>J</i> <b>111011 <b>1111</b></b>			
9.					
	Etha fallowing Dut	han aada ba? V	Vrita in the box	on the right	
What would the output of $a = [5,4,3]$	the following Fyt.				
if a[0] > a[2]:			ot sorted ascend ot sorted ascend		
print('Not so	rted ascendi			J	
if a[1] > a[2]:	. cca asceriar	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
print('Not so	rted ascendi	ng.')			
10.		C11: : .1 1	TI C	1 11.1	1: 4 C 1
O 1 / /1 C 11 ' D	ython function by	filling in the b	oxes. The function	on should take a	list of numbers a
Complete the following P return the same list but in	-				
return the same list but in	reverse order.				
return the same list but in def reverse(to_be	reverse orderreversed):				
return the same list but in def reverse(to_be to_be_returned)	reverse orderreversed):	rsed:		Gözlerim kana	dı abi bu ne???

return to\_be\_returned

Name:	ID:	Signature:

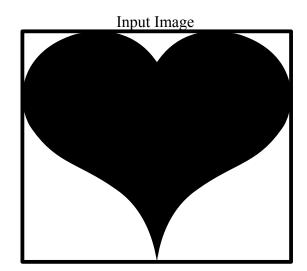
11.

In class you saw that one way of representing an image in Python is as a "list of lists". That is, a list of rows, each of which is a list of pixels within that row, each of which is a 3-element list containing the red, green and blue values for that pixel (each with a maximum value of 255).

For the following code and input image, draw what the output image will look like.

You can assume that the image has been stored in the variable image and that its height (number of rows) and width (number of columns) are both 1000.

```
row = 0
while row < 1000:
    col = 0
    while col < 1000:
        image[row][col][0] = 255 - image[row][col][0]
        image[row][col][1] = 255 - image[row][col][1]
        image[row][col][2] = 255 - image[row][col][2]
        col = col + 1
    row = row + 1</pre>
```





12.

In HTML forms, when GET is compared with POST:

- A GET results in URLs containing form information.
- **B** POST can transmit more data than GET.
- **X** GET allows the retrieval of form information from the web server.
- POST is a general protocol for web and email.
- **X** GET is the only request type used by the Internet Explorer browser.
- **X** POST is necessary when using the "text" input type.

Circle all that apply (there can be more than one answer).