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## **ISTANBUL 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-value	pairs are used in HTM	L:
	1	

Name a way that name-value pairs are used in CSS:

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		
2		

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			
2			
3			



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4.						
	for each of the ex	xamples on the	left, determine w	hich of the conce	epts at the top it is	an example of
(if part of the exa		e concept, do <u>n</u>	ot count it – e.g.	a dog is an exam	ple of an animal	but a leg is only
a part of an anim		D 1 4'	A1 1 4	E 4	<b>D</b> 1	
Example	Expression	Relative address	Absolute address	Function	Formula	Range
5+6						
=5+6						
В6						
=B6+5						
RAND()						
\$A\$5:\$B\$6						
=ABS(B3)						
Tick more tha	n one cell in each	row but only tick	x if the example <u>is</u>	an example of the	column item (not	is a part of it).
Read the follow	ing HTML form	is code then an	swer the auestic	ons below:		
	8					
<form <u="">action</form>	n="/login" r	method="POS	ST">			
_		•	_		secret syste	em:
	•		<u>'</u> name="user			
		•	name="pw" /	> 		
<pre></pre>	type="submi <sup>-</sup>	t" <u>value="S</u>	show" />			
101 III						
5.						
Considering the a	above code, desc	ribe what each	of the underlined	parts does in a s	hort sentence.	
action="/log	<u>gin"</u> :					
type="text"	:					
value="Show	<u>"</u> :					
6.						
Complete the fol given previously		ode to extract th	ne user-name and	password entere	d by the user in the	he HTML form
	ta = reques <sup>.</sup>					
username	e = form_da <sup>.</sup>	ta[	]			
	d = form_da <sup>.</sup>					

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7. For each Python expression whether it is likely to result					
Example	ValueError	TypeError	SyntaxError	NameError	No Error
int) 5(+)'5'	, aracerror	Турсытог		1 (diffe El 101	1(0 21101
int('A') + 5					
str(5) + 5					
str('5') + 5					
int('5') + 5					
str(A) + 5					
Tick the cells for which the	expression on th	ne left of the ro	w results in the e	error at the top o	f the column.
8.					
In Python, functions are use	ful mostly becar	use:			
A They are by defin	nition functional	l, which means	useful.		
<b>B</b> They merge their	operands.				
C They are a good	way of making	the indentation	clearer.		
<b>D</b> They serve as a b	oridge between l	Python and Lib	reOffice.		
E They are a good	way to stop us n	needing to write	the same code t	wice.	
F They serve as a b	ridge between I	ython and HTM	ML.		
Circle one letter.					
9.					
What would the output of the	e following Pyt	hon code be? W	Vrite in the box of	on the right.	
a = [5,4,3]	<b>G</b> ,				
if a[0] > a[2]:					
print('Not sort	ed ascendi	ng.')			
if a[1] > a[2]:					
print('Not sort	ed ascendi	ng.')			
10.					
Complete the following Pyth return the same list but in re	•	filling in the bo	oxes. The function	on should take a	list of numbers and
<pre>def reverse(to_be_r</pre>	reversed):				
=	[]				
item in	to_be_reve	rsed:			
to_be_retur	ned = [ite	m] + to_be	_returned		
return					

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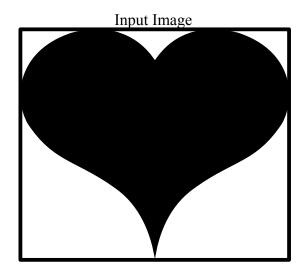
11.

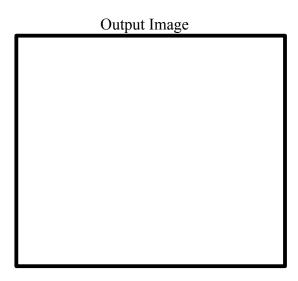
In class you saw that one way of representing an image in Python is as a "list of lists". That is, a list of rows, each of which is a list of pixels within that row, each of which is a 3-element list containing the red, green and blue values for that pixel (each with a maximum value of 255).

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.
- C GET allows the retrieval of form information from the web server.
- **D** POST is a general protocol for web and email.
- E GET is the only request type used by the Internet Explorer browser.
- **F** POST is necessary when using the "text" input type.

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