Quizzes ICS 104

Term: 211

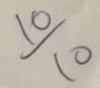
Instructor: Mustafa AlTurki

Quiz number		Material	Notes
Quiz 1	Chapter 1 Chapter 2	Variables, Strings and Arithmetic Operations	Solved by a student. The grade is full mark
Quiz 2	Chapter 3 Chapter 4	Decision Loops	Solved by a teacher.
Quiz 3	Chapter 5 Chapter 6 Chapter 7	Functions List, Tuples and Dictionaries Files and Exceptions	Solved by a student. Coding part: I tried to give you a correct answer but you should check it
Quiz 4	Chapter 9 Chapter 10	C language	Solved by a teacher.

• We didn't get a quiz about Chapter 8: Classes and Object Orientation

Good Luck my friends

ICS104 - Introduction to Programming in Python and C



Term 211 - Quiz 1 - Section 1

Name:	
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Serial #

Part 1: Choose the correct answer:

Q1. you need to import math module to use which of the following functions:

a. print()

- b. int()
- c. sqrt()
- d. All above.

Q2. Which of the following is a part of the Central Processing Unit (CPU)

- a. Arithmetic Logic Unit b. Control Unit RAM



d. a and b

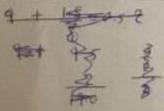
Part 2: What is the output of the following code?

Notes: If there is no output then write NO OUTPUT in the answer box

If the code will result in an error write ERROR in the answer box

Q3. (2 points)

Code	Output		
a = 3 b = float("1.5") c = a ** 2 + b/a * 2 d = (a ** 2 + b/a) * 2 print(c) print(d)	19		



Q4. (1 points)

Code	Output
a = 42 b = a % 2 c = a / b print(c)	ERROR ERROR

Q5. (2 points)

Code	Output	
<pre>a = "Hello World" b = a[2] c = a[4] * 4 d = b + c + b print(b) prin+(d)</pre>	100001	

Q5. (3 points)

Code	Output	
a = round(10.5)	图	1777
b = abs(-5) * a	550	
a = b / a		
print(a,b)		
# print(c)		

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ICS104 – Introduction to Programming in Python and C Term 211 - Quiz 2 – Section 1

Name:

ID: Serial #

Q1. What is the output of the following code segment? (1 point)

```
a = 13
b = 20
c = 35
if a < b and a < c :
    print(a)
elif b < a or b < c :
    print(b)
elif c < a and c < b :
    print(c)</pre>
```

(a) 13 (b) 20 (c) 35 (d) No output

Q2. Which of the following code snippets print all odd numbers from 1 to 10 (including 1)? (2 point)

```
for i in range(0,10,2):
a)
           print(i)
b)
       i = 1
       while i <= 10:
           if i%2 != 0:
               print(i)
                i = i+1
       i = 1
c)
       while i <= 10:
           if i%2 != 0:
                print(i)
           i = i+1
       i = 1
d)
       while i <= 10:
           i = i+1
           if i%2 != 0:
               print(i)
```

Q3. What is the output of the following code segment? (2 points)

Code	Output
<pre>for i in range(1,4): if i%2 == 0: j = 1 while j <= i: print(i, j) j = j + 1</pre>	2 1 2 2

Q4. The following code stores all letters in a string variable called letters and all digits in a string variable called nums, the code then prints both variables.

Complete the code to achieve this task. Make sure your indentation is correct. (5 points)

Note: The expected output when you print the variables letters and nums is as follows:
quiz
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```
sent = "3-q2u99i3z2"
letters = ""
nums = ""
for char in sent:
    # write your code here
    if char.isalpha():
        letters = letters + char
    elif char.isdigit():
        nums = nums + char

print(letters)
print(nums)
```

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ICS104 – Introduction to Programming in Python and C Term 211 – Quiz 3 – Section 1

Name:	
ID:	Serial #

Q1. What is the output of the following code segment? (2 point)

1.1

```
list1 = ['a', 'b', 'c', 'd']
list2 = list1
list1.append('e')
list2.remove('a')
print(list2)
```

```
(a) ['b', 'c', 'd', 'e']
(b) ['b', 'c', 'd']
(c) ['a', 'b', 'c', 'd', 'e']
(d) ['a', 'b', 'c', 'd']
```

1.2

```
credits = {"ICS104": 4, "MATH101": 4}
credits["PHYS101"] = 4
credits["ICS104"] = 3
print(credits["ICS104"])
```

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a) 4	(b)) 3	c) 2	d) KeyError
	-			I a) MeATITOT

Q2. What is the output of the following code segment? (2 points)

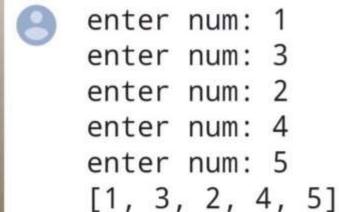
Code	Output		
<pre>values = [3, 2, 4, 7, 11, 2] found = False pos = len(values) - 1 while pos >= 0 and not found : if values[pos] % 2 == 1: found = True print(values[pos]) else : pos = pos -1</pre>			

Q4. Write a function named readInt that takes no arguments and does the following: reads an input from the user, converts it to an integer and returns that integer. After that, create a main function that reads five integers from the user using readInt, and stores them in a list, then prints that list. Write a call to your main function. Assume the user always enter valid integers. (6 points)

```
0
```

```
def read():
    x = int(input('enter num: '))
    return x

def main():
    numList = []
    for i in range(5):
        numList.append(read())
    print(numList)
main()
```



$ICS104-Introduction\ to\ Programming\ in\ Python\ and\ C$ $Term\ 211-Quiz\ 4-Section\ 1$

Name:			
ID:			Serial #
Q1. What is the output of	the following code	e segment? (2 point)	
<pre>1.1) #include<stdio. 0;="" for(i="1;" i;="" i<="" int="" main()="" pre="" printf(="" return="" {="" }<=""></stdio.></pre>			
a) 1 3	b) 13	c) 1	d) None of the above
<pre>1.2) #include<stdio.h> int main() { int i = 3; int j = 4; i = ++j; printf("%d %d", i; return 0; }</stdio.h></pre>	j);		
a) 4 5	b) 4 4	c) 5 5	d) 5 4

Q2. What is the output of the following code segments? (8 points)

Code	Output
<pre>#include <stdio.h> int main(){ int a = 1;</stdio.h></pre>	3
<pre>int *b = &a a = 2; *b = 3; printf("%d\n", *b); printf("%d\n", a); return 0; }</pre>	3

Code	Output
<pre>#include <stdio.h> void fn(double *a, int b){ *a = *a - 1; b = b + 1; }</stdio.h></pre>	3.2
<pre>int main() { double x = 4.2; double *xp = &x int b = 3; fn(xp, b); printf("%.1lf\n", *xp); printf("%d\n", b); return 0; }</pre>	

Code	Output
<pre>#include<stdio.h> int main() { int i = 4; do{ i=i-1; printf("%d",i); }while(i>=4); return 0; }</stdio.h></pre>	3