## CS303E Week 3 Worksheet: More Simple Python

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or I	points: 1 pr in the braise.				_		•					
(a)	The input	t() fur	action a	always	return	s what	the us	er type	ed in a	s a stri	ng.	
(b)	Escape sequences in Python are used to represent special characters, and they always start with the backslash.											
(c)	The ord() function returns the ASCII code (number) of a character.											
(d)	The + and * operators can be used on strings.											
(e)	The format() function always generates an integer representation of whatever you give it.											
(f)	x ** y is o	differen	t from	pow(x	, у).							
(g)	The chr()	) functi	ion reti	ırns th	e chara	cter co	rrespo	nding t	o a giv	en ASC	CII code	
(h)	To use fur module.	nctions	like m	ax() a	nd min	ı(), yo	u do n	ot need	d to in	port t	he math	
(i)	To conver	t a lett	er fron	n uppe	r to lov	ver, yo	u can a	add 32	to its	ASCII	value.	
(j)	The print	t() an	d form	at() f	unction	s are i	ntercha	angeab	le in al	l cases	•	
						_						
	a	b	c	d	e	f	g	h	i	j		

**Page total:** \_\_\_\_\_/10

Questions 2-6 are multiple choice. Each counts 2 points. Write the letter of the BEST answer in the box on the next page. Please write your answer in UPPERCASE. Each problem has a single answer.

- 2. What is a possible result from random()? (this is a sinister question!)
  - A. 0.5
- B. 0
- C. 1
- D. any of A, B, C
- 3. Which of the following correctly match the escape sequences for tab, newline, and backslash?
  - $A. \tt, \new, \$
  - B. \t, \n, \\
  - C. \tab, \nl, \\\
  - D. \tab, \n, \\
- 4. What is the difference between the end and sep parameters in the print () function?
  - A. end specifies the separator between successive arguments; sep specifies the string added at the end of the printed output.
  - B. end specifies the separator between successive arguments; sep specifies the string added before each argument.
  - C. end specifies the string added at the end of the printed output; sep specifies the separator between successive arguments.
  - D. end specifies the string added at the beginning of the printed output; sep specifies the separator between successive arguments.
  - E. end specifies the string added at the beginning of the printed output; sep specifies the separator between successive arguments.

- 5. If we execute the code value = input() and the user enters 25, can we then perform the operation value2 = value + 5 without an error?
  - A. Yes, and value will be 30.
  - B. No, it will result in a runtime error.
  - C. Yes, and value2 will be "255".
  - D. No, it will result in a syntax error.
  - E. No, it will result in a logic error.
- 6. What is the result of the following code?

```
s1 = "abc"
s2 = "def"
result = s1 * 3 + s2
print(result)
```

- A. "abcabcabcdef"
- B. "s1s1s1s2"
- C. "abc333def"
- D. Error
- 7. In which of the following scenarios should you opt to use format() over round()?
  - A. Converting a string into a numeric value.
  - B. Improving precision when rounding a numeric value.
  - C. Creating a string representation of a numeric value with custom formatting options.
  - D. Both format() and round() can be used interchangeably.

2	3	4	5	6	7

The following 5 questions require you to trace the behavior of some Python code and identify the output of that code. For each question, write the output for the code segment on the provided line.

8.	(3 points)
	print(format (421.698, "0.1f"))
9.	(3 points)
	print(max(-30, 10, 27, -3) + min(-30, 10, 27, -3))
10.	(3 points)
	<pre>letter = 'z' print(chr(ord(letter) - 5), chr(ord(letter) - 32))</pre>
11.	(3 points)
	x = 5 $y = 10$
	<pre>z = 15 print(y, x, z, sep="-", end="!")</pre>
12.	(3 points)
	<pre>print(format(20.2, "&gt;5.0f") + "\\\")</pre>