Feedback — Quiz 3a

Thank you. Your submission for this quiz was received.

You submitted this quiz on **Mon 9 Mar 2015 10:32 AM WET**. You got a score of **100.00** out of **100.00**.

Question 1

What Python operator takes two strings (e.g., `"sun"` and `"rise"`) and forms the combination of these two strings, one followed by the other (e.g., `"sunrise"`)?

Your Answer		Score	Explanation
○	`concat`		
○	`*`		
○	`concatenate`		
○	`append`		
⦿	`+`	✔ 10.00	
Total		10.00 / 10.00	

Question 2

What does the draw handler parameter represent?

If you've forgotten, refer to the documentation.

Your Answer	Score	Explanation
○ The frame		

⊙ The object to be drawn

⦿ The canvas   ✔   10.00

⊙ The location of the object to be drawn

⊙ Nothing — it doesn't have a parameter

Total   10.00 / 10.00

Question 3

What happens if you draw text outside the canvas coordinates?

Try it in CodeSkulptor.

Your Answer	Score	Explanation
⊙ Causes an error		
⊙ The text appears in the frame, but some or all of the text is shown outside the canvas area.		
⊙ The text coordinates are implicitly "wrapped" around using modular arithmetic, so that the text appears on the canvas		
⦿ Some or none of the text is shown. Conceptually, the text is drawn at whatever coordinates are given, but only whatever text fits within the canvas coordinates is shown.	✔ 10.00	
Total	10.00 / 10.00	

Question 4

Assume we have a canvas that is 200 pixels wide and 300 pixels high. We want to draw a green line between the upper left corner and the lower right corner. Which of the following

calls will accomplish this?

Try the code in CodeSkulptor.

Your Answer	Score	Explanation
☐ `canvas.draw_line((199, 0), (0, 299), 10, "Green")`	✔ 1.00	
☐ `canvas.draw_line((299, 0), (0, 199), 10, "Green")`	✔ 1.00	
☑ `canvas.draw_line((0, 0), (199, 299), 10, "Green")`	✔ 8.00	
Total	10.00 / 10.00	

Question Explanation

A common mistake on this problem is to use a frame that is the same size as the default CodeSkuptor demo (300 pixels wide and 200 pixels high).

Question 5

Consider the following function definition.

```
def date(month, day):
    """
    Given numbers month and day, returns a string of the form '2/12',
    with the month followed by the day.
    """
    return month + "/" + day


print date(2, 12)
```

This definition leads to an error. To fix it, what Python expression should replace the question marks below?

```
def date(month, day):
    """
```

```
    Given numbers month and day, returns a string of the form '2/12',
    with the month followed by the day.
    """
    return ???

print date(2, 12)
```

Your Answer	Score	Explanation
○ `str(month / day)`		
○ `str(month + "/" + day)`		
○ `string(month / day)`		
○ `string(month + "/" + day)`		
○ `string(month) + "/" + string(day)`		
● `str(month) + "/" + str(day)`	✔ 10.00	
Total	10.00 / 10.00	

Question 6

How many instances of the letter `"l"` are there in the following:

```
1lll1l11l11lll1l111ll1l11ll1l11l11l111ll11l1l11l11ll1l11l11l11ll1l11ll111ll1l11l111l1l11l
l1l11l11l1ll1l11l1l111l1ll1l1l1ll1
```

Although it might be hard to tell, that string contains ones (`1`) and lower-case L's (`l`). Create a small CodeSkulptor program, and use copy-and-paste to put this string in your code. Your program should only need one function or method call.

You entered:

```
60
```

Your Answer	Score	Explanation

60	✔	10.00
Total		10.00 / 10.00

Question 7

Where should your `draw_text` , `draw_line` , and similar drawing calls be?

Your Answer	Score	Explanation
○ Anywhere in your code		
○ In the handlers for the control objects that create or change the drawing, or their helper functions		
⦿ In a draw handler, or a helper function called from it	✔ 10.00	
Total	10.00 / 10.00	

Question 8

Which of the following function calls are valid, i.e., don't lead to an error?

Read the documentation for these functions, and also try the code in CodeSkulptor.

Your Answer	Score	Explanation
☐ `int("five")`	✔ 1.00	
☐ `int("5.4")`	✔ 1.00	
☑ `float("5")`	✔ 4.00	
☑ `float("5.4")`	✔ 4.00	
Total	10.00 / 10.00	

Question 9

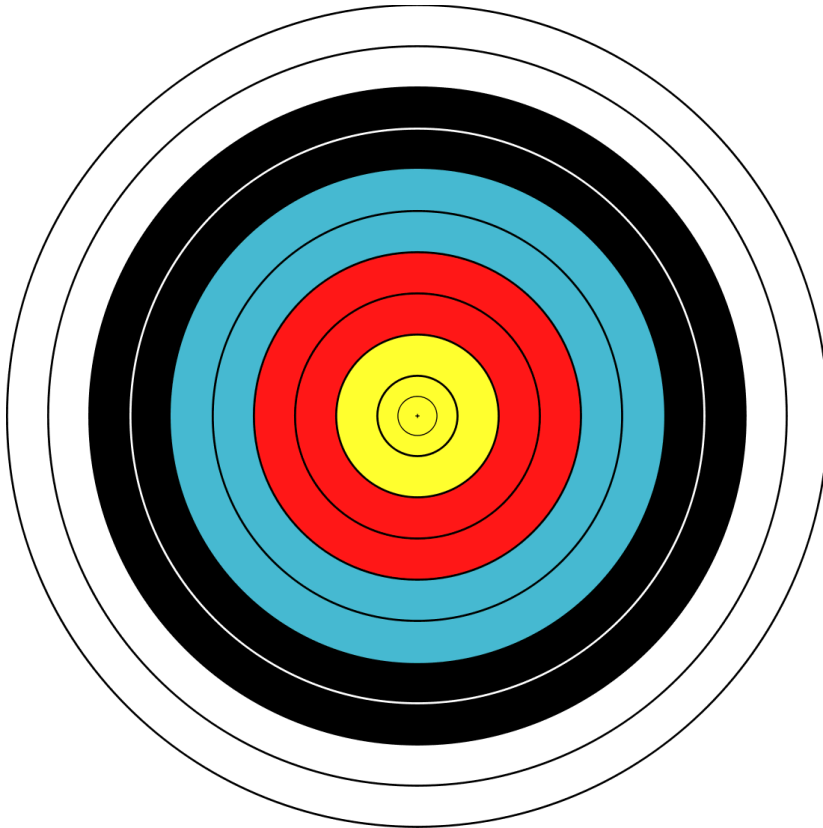Turn the following description into a CodeSkulptor program, and run it.

1. Create a 300-by-300 canvas.
2. Draw two circles with radius 20 and white lines of width 10. One is centered at (90,200) and one at (210,200).
3. Draw a red line of width 40 from (50,180) to (250,180).
4. Draw two red lines of width 5 from (55,170) to (90,120) and from (90,120) to (130,120).
5. Draw a red line of width 140 from (180,108) to (180,160).

The resulting picture is a simple diagram of what?

Your Answer	Score	Explanation
⃝ A computer		
⃝ A person		
⃝ A motorcycle		
⦿ An automobile	✔ 10.00	
⃝ A house		
Total	10.00 / 10.00	

Question 10

The following is a diagram of an archery target.

To draw this in CodeSkulptor, we can put a small yellow circle with a black border on top of a slightly bigger yellow circle with a black border, … on top of a big white circle with a black border. In what order should your code draw these circles?

Your Answer		Score	Explanation
⊙ Largest first	✔	10.00	Correct. Whatever you draw last appears to be on top.
○ Smallest first			
Total		10.00 / 10.00	