Introduction to Alice – Assessment

Topic: **Objects: Parts, Methods**

By Yossra Hamid
Under the supervision of Professor Susan Rodger
Duke University
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This is a multiple-choice assessment, designed for beginners in Alice. It should take approximately 10 minutes.

For preparation, **at least one** of the following *Introduction to Alice* Tutorials should be completed:

- Shark Attack!
- An Introduction to Alice: Astronaut and Humvee (Long) **OR** Astronaut and Humvee (Short) and Astronaut and Humvee Extras!
- Getting Started Fish and Fairy
You are given the following world in Alice:

1. How many parts does the object `aliceLiddell` have?
   a. 4
   b. 5
   c. 10
   d. Greater than 8

2. How many objects are in the world? **Include the camera, light, and ground as objects. Do not include subparts.**
   a. 3
   b. 6
   c. 14
   d. 17
3. Which of the following code would make the cow lower his neck to eat the grass:
   a. cow.body - turn backward - 0.25 revolutions - more...
   b. cow.body - turn forward - 0.25 revolutions - more...
   c. cow.neck - turn backward - 0.25 revolutions - more...
   d. cow.neck - turn forward - 0.25 revolutions - more...

4. Alice wants to reach out and pet the penguin with her left arm. Which of the following code is best for this action?
   a. aliceLiddell.leftArm - move down - 5 meters - more...
   b. aliceLiddell.leftArm - resize 2 - more...
   c. aliceLiddell.leftArm - roll right - 0.25 revolutions - more...
   d. aliceLiddell.leftArm - move to penguin - more...
5. Starting with the pictured world, what will the world look like when the code has run?

*Hint: Think of the object’s view of left/right, not your own.*

![Image of Alice, a cow, and a penguin in a field]

<table>
<thead>
<tr>
<th>Action</th>
<th>Direction</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>penguin</td>
<td>turn right</td>
<td>0.25 revolutions</td>
</tr>
<tr>
<td>penguin.head</td>
<td>turn left</td>
<td>0.25 revolutions</td>
</tr>
<tr>
<td>cow.body</td>
<td>move down</td>
<td>5 meters</td>
</tr>
</tbody>
</table>

a. The penguin will face Alice; the cow’s body will disappear into the ground; his head will remain in its place.

b. The penguin’s body will face the cow and Alice; the penguin’s head will face the camera. The cow’s body will disappear into the ground; his head will remain in its place.

c. The penguin’s body will face the cow and Alice; the penguin’s head will face the camera. The entire cow will disappear into the ground.

d. The penguin will face Alice. The entire cow will disappear into the ground.