Given below are the condition possibilities for an if statement

Below are the tiles at the bottom of a procedure
Given below are the panda procedures and panda Properties on the bottom right.
Given below are the panda functions.
1. (3 pts) Consider the following web page

[Image of web page]

In the web page, which tags were used on the words html and CSS?

a) The <pre> tag on the word html and the <i> tag on the word CSS.
b) The <i> tag on the word html and the <pre> tag on the word CSS.
c) The <em> tag on the word html and the <strong> tag on the word CSS.
d) The <strong> tag on the word html and the <em> tag on the word CSS.

2. (3 pts) Consider the following HTML code that defines some lists.

<ol>
  <li> ACC </li>
  <ul>
    <li> Duke </li>
  </ul>
  <li> SEC </li>
</ol>

Which one of the following is the way this HTML code will be displayed on a web page?

A) 1. ACC
   o Duke

2. SEC
   1. Tennessee

B) 1. ACC
   o Duke

2. SEC
   1. Tennessee

C) • ACC
   1. Duke

• SEC
   o Tennessee

D) • ACC
   1. Duke

• SEC
   1. Tennessee
3. (3 pts) Consider the following HTML code to display a table.

```html
<table>
  <tr>
    <th>tulips</th>
    <th>roses</th>
    <th>pansies</th>
    <th>daffodils</th>
  </tr>
</table>
```

Which one of the following is the way this HTML code will be displayed on a web page?

A) ![Tulips and Roses](image1)

B) ![Tulips, Roses, Pansies, and Daffodils](image2)

C) ![Tulips, Roses, Pansies, and Daffodils](image3)

D) ![Tulips, Roses, Pansies, and Daffodils](image4)

4. (3 pts) Consider the following HTML code and CSS code:

```html
<h2 id="change"> Turtles</h2>
<h2> Seagulls </h2>
```

```css
#change
{ color: blue; }
#thing
{ color: yellow; }
```

The default color with NO CSS is black. How are the words Turtles and Seagulls displayed?

A) Turtles and Seagulls are both in black
B) Turtles is in blue and Seagulls is in black
C) Turtles is in blue and Seagulls is in yellow
D) Turtles and Seagulls are both in blue.
5. (3 pts) Consider the following HTML code: and .css code:

```html
<h2 class="something"> Turtles</h2>
<h2> Seagulls </h2>
```

The default color with NO CSS is black. How are the words Turtles and Seagulls displayed?

A) Turtles and Seagulls are both in black  
B) Turtles is in purple and Seagulls is in green  
C) Turtles is in green and Seagulls is in purple  
D) Turtles is in purple and Seagulls is in black.

6. (4 pts) A six digit hexadecimal number represents a color. A color can also be represented as a three-tuple of numbers representing the red, green and blue components (or RGB) of the number. SHOW YOUR WORK.

A. Convert the hexadecimal color number #2E0A3C into RGB: ( , , )

B. Convert the color in RGB (35, 12, 27) to a six-digit hexadecimal color number:
7. (3 pts) Consider the pig shown below. Which line of code has the pig change position from the top picture to the bottom picture?

8. (3 pts) Consider the pig shown below. Which do in order block of code has the pig change position from the top picture to the bottom picture?
9. (3 pts) Consider the following pictures in which the marchHare changes from the picture on the left to the picture on the right.

Which one of the following lines of code is executed to make this change in the marchHare?

A) 
B) 
C) 
D) 

10. (3 pts) Consider a program with a hare and a panda as shown in the figure on the left. Which one of the following will be the position of the panda and hare after this code executes?

Start
11. (13 pts) Consider the following Alice code in which the lines are numbered.

A) In line 2, what is the name of the procedure?

B) In line 2, what is the type of the procedure?

C) In line 2, list the word(s) that are arguments.

D) In line 2, list the word(s) that are parameters.

E) In line 2, I can put the words bunny or pig in place of the word panda, but I cannot put camel or dalmatian. What are the types of all the parameters in this line?

F) What must be true in order for line 6 to execute?
12. (4 pts) Consider the following program that has the three objects: stuffedTiger, marchHare and panda (shown below from left to right), and given code. The world has been setup as shown below. The stuffedTiger is exactly 1.0 meter from the marchHare, and the panda is exactly 1.0 meter from the marchHare.

The diagram below is looking from above over the scene. The stuffedTiger is represented by the S, the marchHare is represented by the M, and the panda is represented by the P. The animals are facing the bottom of the page. Using the diagram below, draw the path of stuffedTiger and marchHare as a solid line and the path of panda as a dashed line.
13. (4 pts) Consider the following **Panda Mystery** procedure.

A) What does the *panda say* when the following line of code is run?

![Panda Mystery Procedure A](image)

B) What does the *panda say* when the following line of code is run?

![Panda Mystery Procedure B](image)
14. (4 pts) Consider the following Panda JumpRandom procedure for the panda to jump a random amount each time the procedure is called.

When you run the program and call the jumpRandom procedure with the panda standing on the ground, the panda moves up and then moves down halfway through the ground. The panda is supposed to land on the ground exactly where it was when it started the jump.

A) Explain why this code does not work correctly.

B) Give the correct code below for the panda jumpRandom procedure below. Do not add any parameters.
15. (14 pts) Consider the following Alice project that has three objects: bunny, pig and panda.

The program starts as shown in the top left figure above with the bunny, pig and panda standing in a line all facing front. Write code to do the following in this order. When you move the animals you do not need to move their legs, just move them.

a) The bunny and pig turn to face each other at the same time, then the pig moves about half the distance between the pig and bunny, then the bunny moves stopping 0.5 units in front of the pig (see top right picture).

b) The panda turns to face the pig and the panda says hello. Then the pig turns around to face the panda. (bottom left picture).

c) The panda jumps over the pig and bunny (not touching either one), landing past the bunny. (bottom picture right).

d) Both the bunny and pig disappear. Then the panda turns to face forward and then turns completely red.
16. (10 pts) Complete the following Chicken **procedure** called `closestOfThree` whose header is shown below. This procedure has three **Biped** parameters, named `creature1`, `creature2`, and `creature3`. This procedure has the object that is closest to the chicken (of the three), say “I’m closest”. (note the blackCat is a Biped)

![Image](image_url)

Here are two calls to this procedure and their results in the picture.

- `closestOfThree`  
  - `creature1`: this.tortoise  
  - `creature2`: this.yetiBaby  
  - `creature3`: this.blackCat

- `closestOfThree`  
  - `creature1`: this.blackCat  
  - `creature2`: this.yetiBaby  
  - `creature3`: this.tortoise

[ code to move the blackCat not shown ]

Complete the code below.

```plaintext
declare procedure closestOfThree with parameters Biped creature1, Biped creature2, Biped creature3
```
(extra page 1, must turn in)
(extra page 2, must turn in)