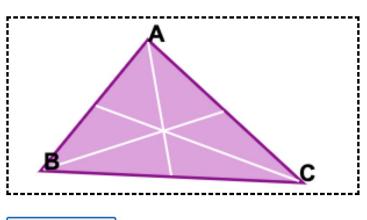
#### **CSIT884**

## **Programming Exercise (Week 12)**

(this is not an assignment)

**Question 1.** Create a web page and display the following:

Enter coordinate for 1st point: X = 120 Y = 20Enter coordinate for 2nd point: X = 30 Y = 130Enter coordinate for 3rd point: X = 250 Y = 140



Draw triangle

The web page allows the user to enter the coordinates of the 3 vertices of a triangle. When the user clicks the button, then draw the triangle on the canvas as above.

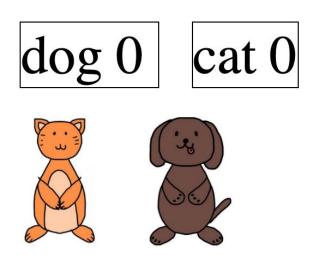
A median of a triangle is a straight line from a vertex to the midpoint of the opposite side. The drawing demonstrates a mathematical fact that: the 3 median lines intersect in a single point (which is called the triangle's centroid).

#### This is a sample code for draggable elements:

#### This is a sample code for droppable elements:

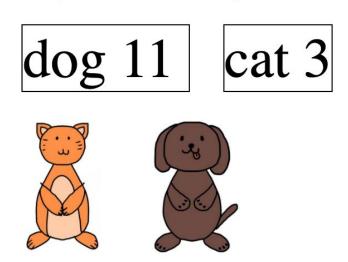
**Question 2.** Create a web page and display the following:

Drag an animal and drop it on the corresponding text.



When an animal is dropped into a matching text then the corresponding counter is increased by 1. For example, if the cat is dropped correctly 3 times and the dog is dropped correctly 11 times then the web page shows the following:

Drag an animal and drop it on the corresponding text.



### **Question 3.** Create a web page and display the following:

Drag an animal and drop it on the corresponding text.



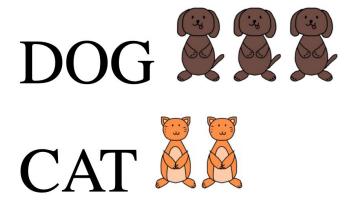
# **CAT**

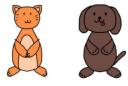




When an animal is dropped into a matching text then the web page will be updated in the following manner. For example, if the cat is dropped correctly 2 times and the dog is dropped correctly 3 times then the web page shows the following:

Drag an animal and drop it on the corresponding text.





#### END OF THE PROGRAMMING EXERCISE