This worksheet belongs to _____

1. The accuracy of object detection depends on the _____.
a) Camera quality
c) Object size
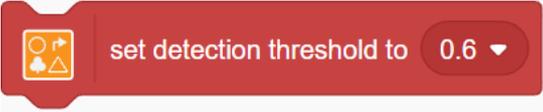b) Sunlight value
d) Confidence value

Answer: ____**d)**_____ *1 Point*

2. Confidence tells us how _____ the machine is, of the object, it has detected. E.g., let's say PictoBlox has detected an orange (fruit) and its confidence is 0.6. This means that it is _____ % sure that the object it has detected is an orange.

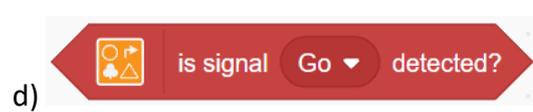**Answer (i)** _____**confident**_____ **(ii)** ____**60**_____ *2 Points*

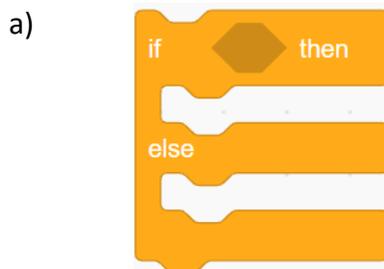**3.** The **block-** allows you to set a confidence level for the task of object detection.
a) True
b) False

Answer: _____**a)**_____ *1 Point*

4. In what order will you pick the following blocks, so that you can make Quarky display as well as instruct (speak) to **go straight**, whenever a **Go** sign is detected.

a)

c)

b)

d)
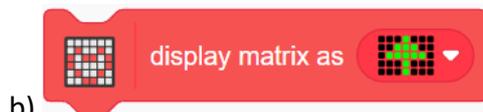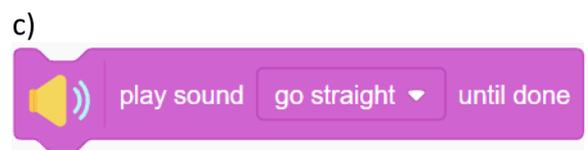
Answer: **(i)** __**a)**__ **(ii)** __**d)**___ **(iii)** __**b)**___ **(iv)** __**c)**___ *4 Points*

Or **(i)** ___**a)**___ **(ii)** __**d)**____ **(iii)** __**c)**____ **(iv)** __**b)**__ .

5. What is the disadvantage of keeping the confidence value **too high**? And, What is the disadvantage of keeping the confidence value **too low**?

Answer:

If we keep the confidence value too high, then it makes detecting objects difficult that are far away from the camera. If we keep the confidence value too low then the machine may also detect some other object or many objects at once.   *2 Points*