Task 1 – Sensing

Please find the *code.py* file in the folder *Task1_Practice*. Modify the *code.py* to accomplish the following:

Given:
A set of test images, each containing

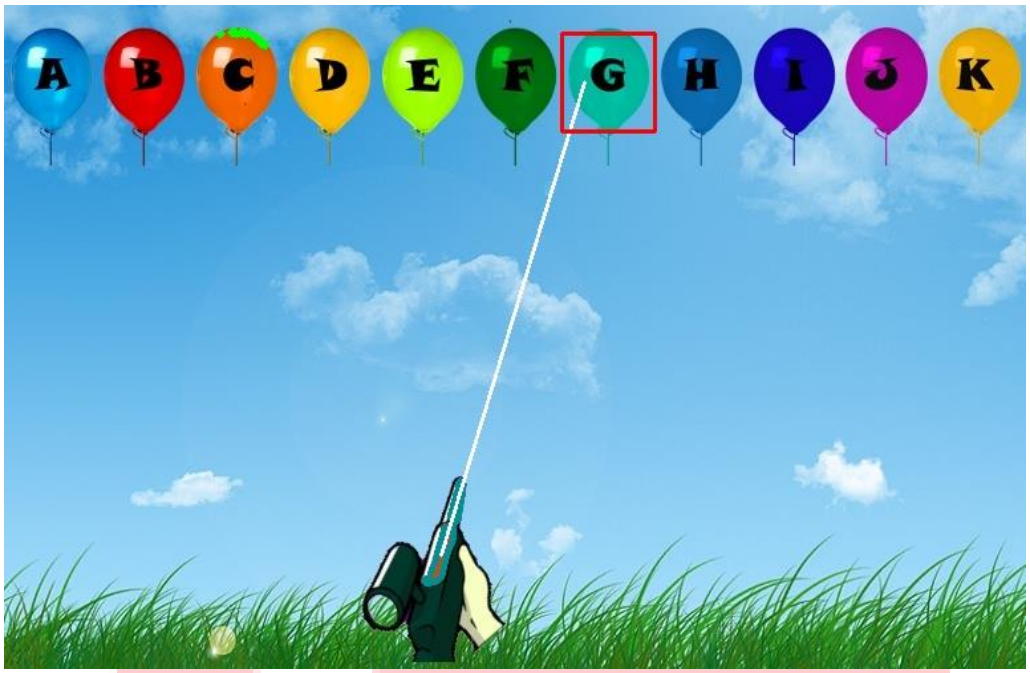
- A shotgun with variation in position and orientation, and
- A set of balloons with letters (target) which are **evenly spaced** in horizontal direction

Test Images for this task are found at: *Task1_Practice/test_images*
For example,

Figure 1: TestImage1

Problem Statement:

- Assume that the shotgun shoots in a straight line, and therefore at one of the evenly spaced balloons
- Modify the **play (img)** function in the *code.py* file to take the test image as input and return the letter on the balloon that has been shot
- For example, given the above test image (Figure 1) as input, the value returned by the **play (img)** function is **'G'**



To do:

1. Open *code.py* in idle and add the code in the snippet code which looks like:

```
def play(img):
    '''
    img    -- a single test image is taken as input argument
    letter -- returns the single character specifying the target that was
    hit  eg. 'A', 'D', etc
    '''
    #add your code here
    return letter
```

2. Modify the *code.py* file to accomplish the aforementioned task.

3. Once done, save the file as **#TeamID_Sensing.py** and put it in the **#TeamID_sensing** folder.