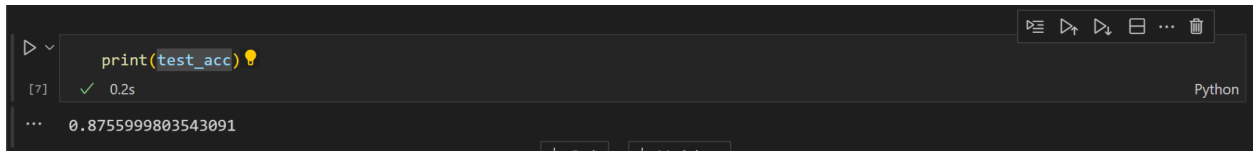


# Assembling Convolutional Neural Network model



```
print(test_acc)
```

[7] ✓ 0.2s

... 0.8755999803543091

Figure 1: Accuracy results of our group's CNN model

# Testing Convolutional Neural Network model

```
1/1 [=====] - 0s 74ms/step
Prediction: This image most likely belongs to cat
Actual: This image is a cat
1/1 [=====] - 0s 20ms/step
Prediction: This image most likely belongs to ship
Actual: This image is an airplane
1/1 [=====] - 0s 18ms/step
Prediction: This image most likely belongs to ship
Actual: This image is an automobile
1/1 [=====] - 0s 16ms/step
Prediction: This image most likely belongs to ship
Actual: This image is a ship
1/1 [=====] - 0s 14ms/step
Prediction: This image most likely belongs to frog
Actual: This image is a deer
```

Figure 2: Default model's image recognition test results

```
1/1 [=====] - 0s 137ms/step
Prediction: This image most likely belongs to cat
Actual: This image is a cat
1/1 [=====] - 0s 15ms/step
Prediction: This image most likely belongs to ship
Actual: This image is an airplane
1/1 [=====] - 0s 18ms/step
Prediction: This image most likely belongs to automobile
Actual: This image is an automobile
1/1 [=====] - 0s 16ms/step
Prediction: This image most likely belongs to ship
Actual: This image is a ship
1/1 [=====] - 0s 20ms/step
Prediction: This image most likely belongs to deer
Actual: This image is a deer
```

Figure 3: Our model's image recognition test results

# Game

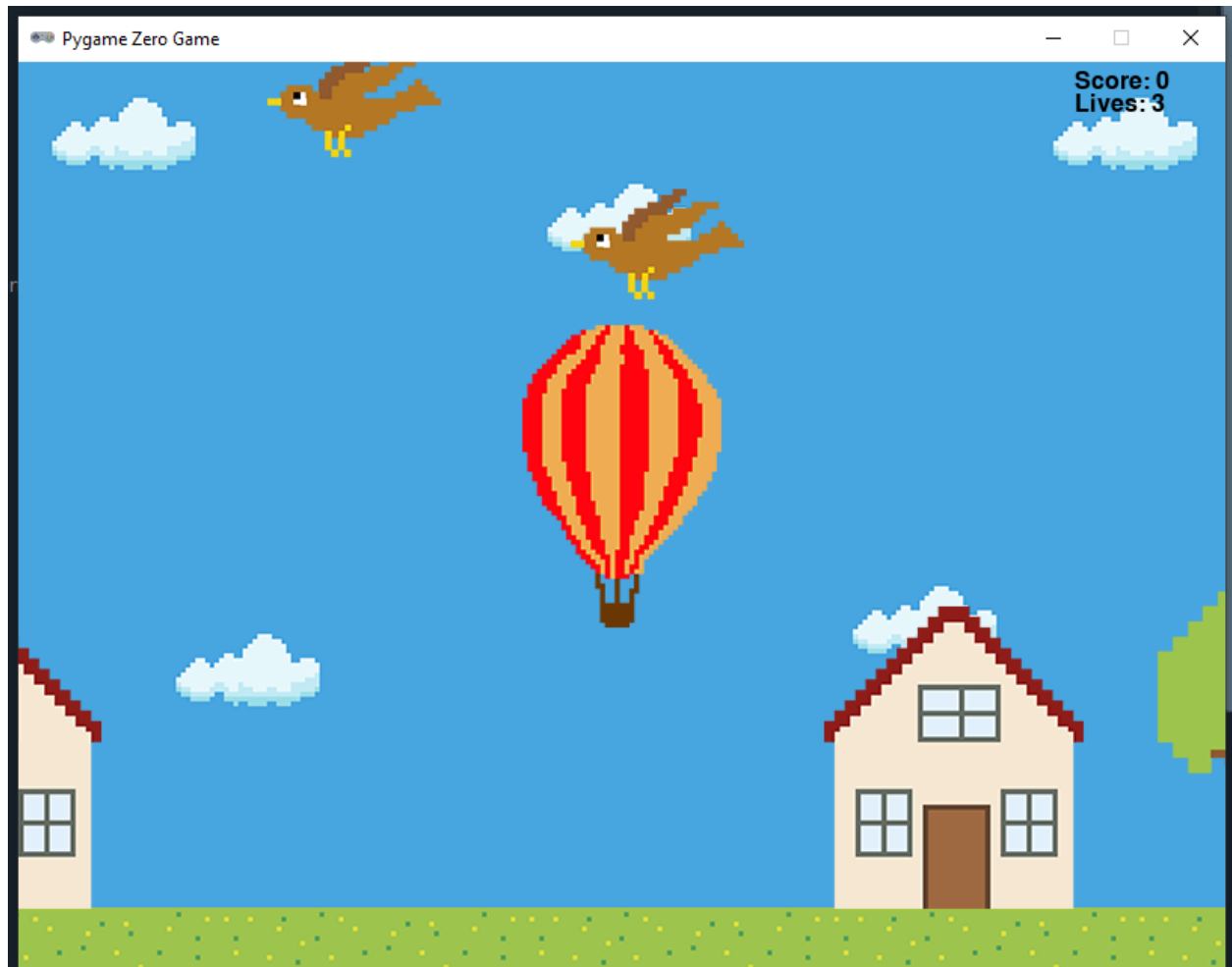


Figure 4: In-game screenshot of Balloon game