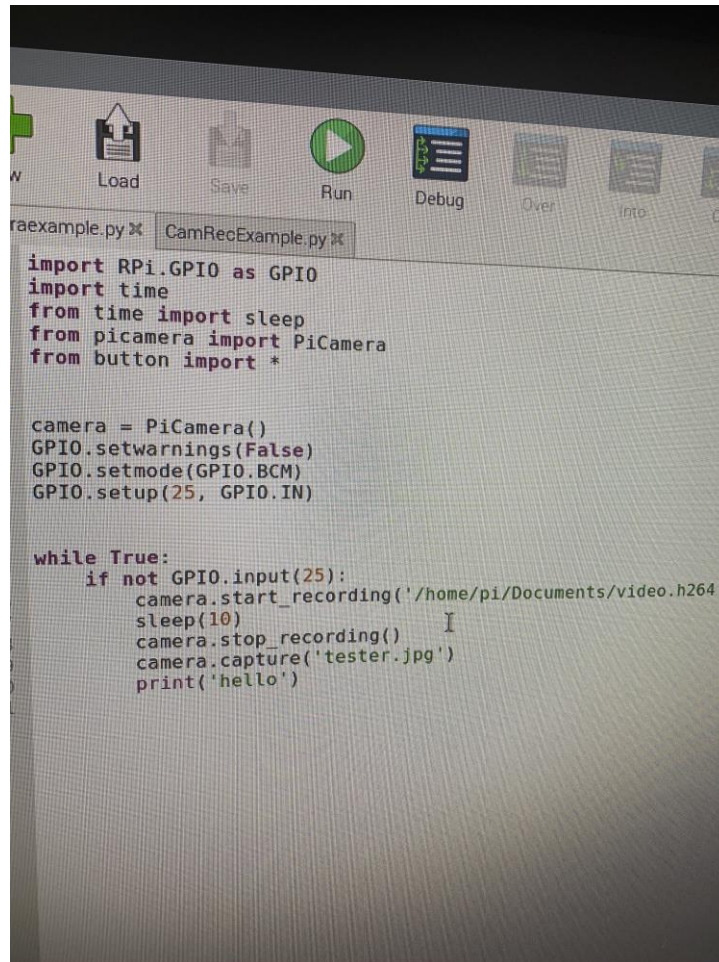


## Week 4

This week we focused on completing our raspberry pi set up, as well as, added some error checking to our app.

A photograph of a Raspberry Pi screen displaying a Python script in a terminal window. The terminal has a toolbar at the top with icons for Load, Save, Run, Debug, Over, and Into. The script is named 'CamRecExample.py' and contains code to initialize a PiCamera, set GPIO pin 25 as an input, and enter a loop that checks the pin state. If the pin is not pressed, it starts recording a video, sleeps for 10 seconds, stops recording, captures a photo named 'tester.jpg', and prints 'hello'.

```
import RPi.GPIO as GPIO
import time
from time import sleep
from picamera import PiCamera
from button import *

camera = PiCamera()
GPIO.setwarnings(False)
GPIO.setmode(GPIO.BCM)
GPIO.setup(25, GPIO.IN)

while True:
    if not GPIO.input(25):
        camera.start_recording('/home/pi/Documents/video.h264')
        sleep(10)
        camera.stop_recording()
        camera.capture('tester.jpg')
        print('hello')
```

Figure 1: Snippet of code from raspberry pi

This code allows us to start recoding a video as well as take a picture. We can now take tester videos and photos and begin connecting the pi to the database.

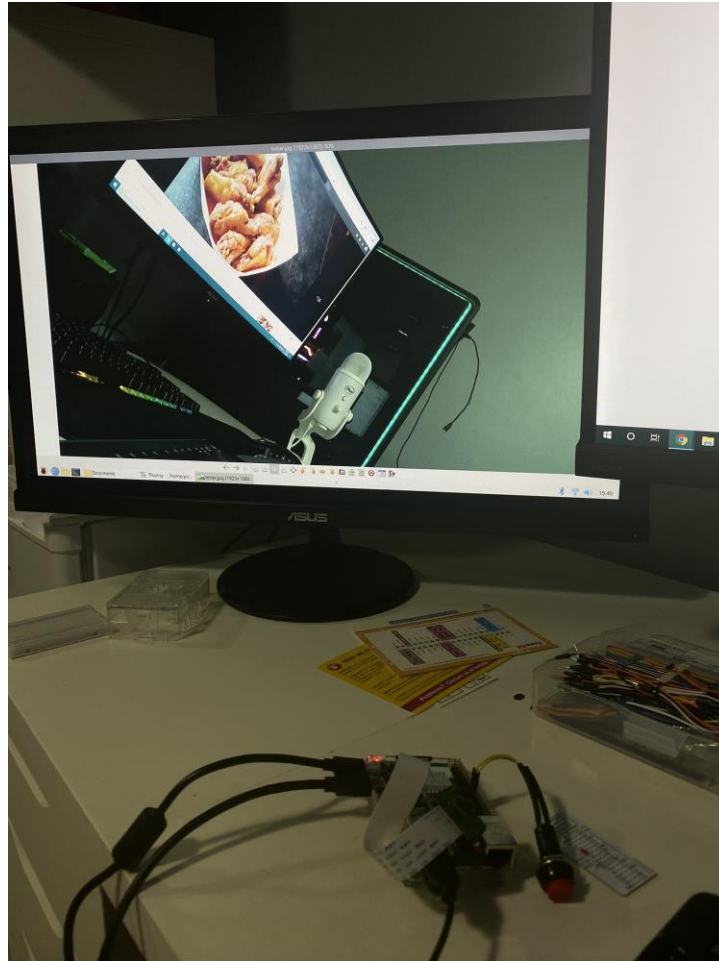


Figure 2: Example Photo

This is an example of a photo the raspberry pi can take.

In addition to the raspberry pi, we also added additional error checking into our app. The app now accepts new users and even rejects the sign-up if the email is not the correct format.

### Moving Forward

In the next week we will begin setting up the pi to the database and test that it stores the photos and videos. We will also start the code to display those photos in the app for users to

see.

