Our project has two main functional parts: sensor data reading and image collection combined with classification. On startup, it creates output and temporary directories if they are not already present.

After setting up sense hat and camera, two threads are spawned. One thread is used to read data from sense hat, format it and append to csv file. Second thread periodically creates 10 seconds long clips of Earth, parses it to individual frames, converts to grayscale and passes all frames ane after the other to Coral TPU