```
3/8/24. 5:02 PM
                                                                                                          Project Part#2
In [1]:
         # Make sure the base overlay is loaded
         from pynq.overlays.base import BaseOverlay
         from pynq.lib import Pmod_IO
         base = BaseOverlay("base.bit")
In [2]:
         from pynq.lib.arduino import Arduino_Analog
         from pynq.lib.arduino import ARDUINO_GROVE_A1
         from pynq.lib.arduino import ARDUINO_GROVE_A2
         from pynq.lib.arduino import ARDUINO_GROVE_A3
         pmod_pin2 = Pmod_IO(base.PMODA, 2, 'out')
         pmod_pin3 = Pmod_IO(base.PMODA, 3, 'out')
         analog1 = Arduino_Analog(base.ARDUINO,ARDUINO_GROVE_A1)
         analog2 = Arduino_Analog(base.ARDUINO,ARDUINO_GROVE_A2)
         analog3 = Arduino_Analog(base.ARDUINO,ARDUINO_GROVE_A3)
In [3]:
         import requests
         import random
         import time
         # Define the API URL for RTD sensor and joystick
         url = "https://api.thingspeak.com/update"
         # Define the API key
         api key = "ZWDDD7SRLM2MQYX3"
         # Define the API URL for reading data
         read_url = "https://api.thingspeak.com/channels/2453222/feeds/last.json?pi_key=ZWDDD7SRLM2MQYX3"
In [ ]:
         while True:
              # Generate a random value between 0 and 3.3
              field1 value = analog1.read() [0]
              field2 value = analog2.read() [0]
              field3_value = analog3.read() [0]
             if field2_value > 1:
              pmod_pin3.write(1)
               pmod_pin2.write(0)
              else:
              pmod_pin2.write(1)
              pmod_pin3.write(0)
             # Create the payload
             payload1 = {"api_key": api_key, "field1": field1_value}
             payload2 = {"api_key": api_key, "field2": field2_value}
              # Make the API request
             response1 = requests.get(url, params=payload1)
             time.sleep(1)
             response2 = requests.get(url, params=payload2)
             # Check if the request was successful
             if response1.status code == 200:
                  print(f"Value {field1 value} was successfully written to field1.")
             else:
                 print(f"Error writing value to field1. Status code: {response1.status_code}")
             if response2.status code == 200:
                  print(f"Value {field2_value} was successfully written to field2.")
             else:
                  print(f"Error writing value to field1. Status code: {response2.status_code}")
              # Wait for 1 second
             time.sleep(1)
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Value 0.00823150634765625 was successfully written to field1. Value 1.4269976806640625 was successfully written to field2. Value 0.00863800048828125 was successfully written to field1. Value 1.4306053161621095 was successfully written to field2. Value 0.008892059326171875 was successfully written to field1. Value 1.4312150573730469 was successfully written to field2. Value 0.008688812255859376 was successfully written to field1. Value 1.4316215515136719 was successfully written to field2. Value 0.00884124755859375 was successfully written to field1. Value 1.4305036926269532 was successfully written to field2. Value 0.008790435791015625 was successfully written to field1. Value 1.4309609985351563 was successfully written to field2. Value 0.008536376953125 was successfully written to field1. Value 1.4298431396484375 was successfully written to field2. Value 0.008536376953125 was successfully written to field1. Value 1.430402069091797 was successfully written to field2. Value 0.0091461181640625 was successfully written to field1. Value 1.4301988220214843 was successfully written to field2. Value 0.008892059326171875 was successfully written to field1. Value 1.4280647277832033 was successfully written to field2. Value 0.008536376953125 was successfully written to field1. Value 1.4285220336914062 was successfully written to field2. Value 0.009298553466796875 was successfully written to field1. Value 1.4275057983398438 was successfully written to field2. Value 0.00884124755859375 was successfully written to field1. Value 1.4303004455566406 was successfully written to field2. Value 0.008587188720703125 was successfully written to field1. Value 1.4277090454101562 was successfully written to field2. Value 0.00894287109375 was successfully written to field1. Value 1.4309101867675782 was successfully written to field2. Value 0.008688812255859376 was successfully written to field1. Value 1.430808563232422 was successfully written to field2. Value 0.00894287109375 was successfully written to field1. Value 1.431265869140625 was successfully written to field2. Value 0.00863800048828125 was successfully written to field1. Value 1.430808563232422 was successfully written to field2. Value 0.008485565185546875 was successfully written to field1. Value 1.4309101867675782 was successfully written to field2. Value 0.008587188720703125 was successfully written to field1. Value 1.4306561279296874 was successfully written to field2. Value 0.0091461181640625 was successfully written to field1. Value 1.4312150573730469 was successfully written to field2. Value 0.008485565185546875 was successfully written to field1. Value 1.431265869140625 was successfully written to field2. Value 0.00863800048828125 was successfully written to field1. Value 1.4309609985351563 was successfully written to field2. Value 0.008993682861328125 was successfully written to field1. Value 1.4306561279296874 was successfully written to field2. Value 0.00894287109375 was successfully written to field1. Value 1.4311642456054687 was successfully written to field2. Value 0.00894287109375 was successfully written to field1. Value 1.4309101867675782 was successfully written to field2. Value 0.008892059326171875 was successfully written to field1. Value 1.4313166809082032 was successfully written to field2. Value 0.00904449462890625 was successfully written to field1. Value 1.4313166809082032 was successfully written to field2. Value 0.008892059326171875 was successfully written to field1. Value 1.4273025512695312 was successfully written to field2. Value 0.008587188720703125 was successfully written to field1. Value 1.426438751220703 was successfully written to field2. Value 0.009095306396484376 was successfully written to field1. Value 1.427963104248047 was successfully written to field2. Value 0.0 was successfully written to field1. Value 1.4292333984375 was successfully written to field2. Value 0.0083331298828125 was successfully written to field1. Value 1.4305036926269532 was successfully written to field2. Value 0.00762176513671875 was successfully written to field1.

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Value 0.00802825927734375 was successfully written to field1. Value 1.427963104248047 was successfully written to field2. Value 0.007977447509765626 was successfully written to field1. Value 1.4279122924804688 was successfully written to field2. Value 0.00843475341796875 was successfully written to field1. Value 1.4279122924804688 was successfully written to field2. Value 0.0079266357421875 was successfully written to field1. Value 1.4275057983398438 was successfully written to field2. Value 0.008079071044921875 was successfully written to field1. Value 1.4277090454101562 was successfully written to field2. Value 0.007875823974609375 was successfully written to field1. Value 1.4280647277832033 was successfully written to field2. Value 0.0079266357421875 was successfully written to field1. Value 1.4282171630859375 was successfully written to field2. Value 0.0083331298828125 was successfully written to field1. Value 1.4282171630859375 was successfully written to field2. Value 0.00782501220703125 was successfully written to field1. Value 1.4282679748535156 was successfully written to field2. Value 0.00823150634765625 was successfully written to field1. Value 1.4286236572265625 was successfully written to field2. Value 0.007723388671875 was successfully written to field1. Value 1.42842041015625 was successfully written to field2. Value 0.007977447509765626 was successfully written to field1. Value 1.42842041015625 was successfully written to field2. Value 0.0081298828125 was successfully written to field1. Value 1.4249143981933594 was successfully written to field2. Value 0.00782501220703125 was successfully written to field1. Value 1.4285220336914062 was successfully written to field2. Value 0.007977447509765626 was successfully written to field1. Value 1.4280647277832033 was successfully written to field2. Value 0.00782501220703125 was successfully written to field1. Value 1.4224246215820313 was successfully written to field2. Value 0.0079266357421875 was successfully written to field1. Value 1.4288777160644532 was successfully written to field2. Value 0.007977447509765626 was successfully written to field1. Value 1.426743621826172 was successfully written to field2. Value 0.0079266357421875 was successfully written to field1. Value 1.428826904296875 was successfully written to field2. Value 0.007723388671875 was successfully written to field1. Value 1.415819091796875 was successfully written to field2. Value 0.008079071044921875 was successfully written to field1. Value 1.4278614807128907 was successfully written to field2. Value 0.00802825927734375 was successfully written to field1. Value 1.4261338806152344 was successfully written to field2. Value 0.007977447509765626 was successfully written to field1.

Value 1.4282679748535156 was successfully written to field2.

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