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<sxh [py]; options for SyntaxHighlighter> #!/usr/bin/python # Written in Python 2.7

# Import required libraries import sys import time import RPi.GPIO as GPIO

# Use BCM GPIO references # instead of physical pin numbers GPIO.setmode(GPIO.BCM)

# Define GPIO signals to use # Physical pins 6,13,19,26 StepPins = [6,13,19,26]

# Set all pins as output for pin in StepPins:
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```
print "Setup pins"
GPIO.setup(pin,GPIO.OUT)
GPIO.output(pin, False)
```

```
Seq = [1,0,0,0], [1,1,0,0], [0,1,0,0], [0,1,1,0], [0,0,1,0], [0,0,1,1], [0,0,0,1], [1,0,0,1]
```

```
StepCount = len(Seq) StepDir = 1 # Set to 1 or 2 for clockwise
```

```
    # Set to -1 or -2 for anti-clockwise
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```
# Read wait time from command line if len(sys.argv)>1:
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```
WaitTime = int(sys.argv[1])/float(1000)
```

```
else:
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```
WaitTime = 10/float(1000)
```

```
# Initialise variables StepCounter = 0
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```
# Start main loop while True:
```

```
# print StepCounter, # print Seq[StepCounter]
```

```
for pin in range(0,4):
    xpin=StepPins[pin]# Get GPIO
    if Seq[StepCounter][pin]!=0:
```

```
# print " Enable GPIO %i" %(xpin)
```

```
    GPIO.output(xpin, True)
else:
    GPIO.output(xpin, False)
```

```
StepCounter += StepDir
```

```
# If we reach the end of the sequence
# start again
```

```
if (StepCounter>=StepCount):
    StepCounter = 0
```

```
if (StepCounter<0):
    StepCounter = StepCount+StepDir
```

```
# Wait before moving on
time.sleep(WaitTime)
```

```
</sxh>
```

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Last update: **2023/03/09 22:35**

