## maze code:

```
import RPi.GPIO as GPIO
import time
# Define GPIO pins for motor control
motor_pins = [17, 18, 22, 23] # Adjust these pins based on your motor driver connections
# Set up GPIO
GPIO.setmode(GPIO.BCM)
GPIO.setup(motor pins, GPIO.OUT)
# Function to move the robot forward
def move_forward():
  GPIO.output(motor_pins, [GPIO.HIGH, GPIO.LOW, GPIO.HIGH, GPIO.LOW])
  print("Moving forward")
  time.sleep(1)
# Function to turn the robot left
def turn left():
  GPIO.output(motor_pins, [GPIO.LOW, GPIO.HIGH, GPIO.HIGH, GPIO.LOW])
  print("Turning left")
  time.sleep(1)
# Function to turn the robot right
def turn_right():
  GPIO.output(motor_pins, [GPIO.HIGH, GPIO.LOW, GPIO.LOW, GPIO.HIGH])
  print("Turning right")
  time.sleep(1)
# Function to stop the robot
def stop_robot():
  GPIO.output(motor_pins, GPIO.LOW)
  print("Stopping")
  time.sleep(1)
# Predefined path (1: move forward, 2: turn left, 3: turn right, 0: stop)
path = [1, 1, 2, 1, 3, 1, 0]
# Main loop to follow the predefined path
try:
  for action in path:
    if action == 1:
       move forward()
    elif action == 2:
       turn left()
    elif action == 3:
       turn_right()
    elif action == 0:
       stop_robot()
except KeyboardInterrupt:
  print("Maze solving interrupted by the user.")
finally:
 GPIO.cleanup()
```