1. from gpiozero import LED
2. from signal import pause
3. import RPi.GPIO as GPIO
4. import time
5. GPIO.setmode(GPIO.BCM)
6. IN1 = 12
8. IN2 = 13
10. IN3 = 20
12. IN4 = 21
14. ENA = 6
16. ENB = 26
17. GPIO.setup(IN1, GPIO.OUT)
19. GPIO.setup(IN2, GPIO.OUT)
21. GPIO.setup(IN3, GPIO.OUT)
23. GPIO.setup(IN4, GPIO.OUT)
25. GPIO.setup(ENA, GPIO.OUT)
27. GPIO.setup(ENB, GPIO.OUT)


31. PWMA = GPIO.PWM(ENA, 900)
33. PWMB = GPIO.PWM(ENB, 900)
35. #PWMA.start(100)
37. #PWMB.start(100)
38. Start = int(input("Do you want to start moving, if so enter 0: "))

41. if(Start == 0):
43. # Move Car foward for 3 seconds
44. print("Moving forward right now")
46. GPIO.output(IN1,0)
48. GPIO.output(IN2,1)
50. GPIO.output(IN3,1)
52. GPIO.output(IN4,0)


56. time.sleep(3)
58. # Turn off all the pins to stop the car for 2 seconds
59. print("Car is paused right now")
60. GPIO.output(IN1,0)
62. GPIO.output(IN2,0)
64. GPIO.output(IN3,0)
66. GPIO.output(IN4,0)
68. time.sleep(2)

71. #Make our robot turn left for 2 seconds
72. print("Moving left")
73. GPIO.output(IN1, 1)
75. GPIO.output(IN2, 0)
77. GPIO.output(IN3, 0)
79. GPIO.output(IN4, 0)
81. time.sleep(2)

84. #Turn off the motors for 2 seconds
86. GPIO.output(IN1, 0)
88. GPIO.output(IN2, 0)
90. GPIO.output(IN3, 0)
92. GPIO.output(IN4, 0)
94. time.sleep(2)
96. # Move Car backward for 5 seconds
98. GPIO.output(IN1,1)
100. GPIO.output(IN2,0)
102. GPIO.output(IN3,0)
104. GPIO.output(IN4,1)
106. time.sleep(5)
107. print("Moving backward")
109. # Turn off all the pins to stop the car for 10 seconds
111. GPIO.output(IN1,0)
113. GPIO.output(IN2,1)
115. GPIO.output(IN3,1)
117. GPIO.output(IN4,0)
119. time.sleep(10)
121. PWMA.stop()
123. PWMB.stop()
125. GPIO.cleanup()