

DcMortor

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import RPi.GPIO as GPIO
from time import sleep

GPIO.setmode(GPIO.BOARD)

ina1 = 33
ina2 = 35
ena = 37

inb1 = 31
inb2 = 29
enb = 23

GPIO.setup(ina1,GPIO.OUT)
GPIO.setup(ina2,GPIO.OUT)
GPIO.setup(ena,GPIO.OUT)

GPIO.setup(inb1,GPIO.OUT)
GPIO.setup(inb2,GPIO.OUT)
GPIO.setup(enb,GPIO.OUT)

pa=GPIO.PWM(ena,1000)
pa.start(25)

pb=GPIO.PWM(enb,1000)
pb.start(25)

print("\n")
print("The default speed & direction of motor is LOW & Forward.....")
print("r-run s-stop f-forward b-backward l-low m-medium h-high e-exit")
print("\n")

while(1):

    x=input("")
    # a -----
    if x=='ar':
        print("a run")
        if(temp1==1):
            GPIO.output(ina1,GPIO.HIGH)
            GPIO.output(ina2,GPIO.LOW)
            print("a forward")
            x='z'
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        else:
            GPIO.output (ina1,GPIO.LOW)
            GPIO.output (ina2,GPIO.HIGH)
            print ("a backward")
            x='z'

elif x=='as':
    print ("a stop")
    GPIO.output (ina1,GPIO.LOW)
    GPIO.output (ina2,GPIO.LOW)
    x='z'

elif x=='af':
    print ("a forward")
    GPIO.output (ina1,GPIO.HIGH)
    GPIO.output (ina2,GPIO.LOW)
    temp1=1
    x='z'

elif x=='ab':
    print ("a backward")
    GPIO.output (ina1,GPIO.LOW)
    GPIO.output (ina2,GPIO.HIGH)
    temp1=0
    x='z'

# a -----

# b -----
if x=='br':
    print ("b run")
    if (temp2==1):
        GPIO.output (inb1,GPIO.HIGH)
        GPIO.output (inb2,GPIO.LOW)
        print ("forward")
        x='z'
    else:
        GPIO.output (inb1,GPIO.LOW)
        GPIO.output (inb2,GPIO.HIGH)
        print ("backward")
        x='z'

elif x=='bs':
    print ("b stop")
    GPIO.output (inb1,GPIO.LOW)
    GPIO.output (inb2,GPIO.LOW)
    x='z'

elif x=='bf':

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        print("b forward")
        GPIO.output(inb1,GPIO.HIGH)
        GPIO.output(inb2,GPIO.LOW)
        temp2=1
        x='z'

elif x=='bb':
    print("b backward")
    GPIO.output(inb1,GPIO.LOW)
    GPIO.output(inb2,GPIO.HIGH)
    temp2=0
    x='z'
# b -----

elif x=='al':
    print("a low")
    pa.ChangeDutyCycle(25)
    x='z'

elif x=='am':
    print("a medium")
    pa.ChangeDutyCycle(50)
    x='z'

elif x=='ah':
    print("a high")
    pa.ChangeDutyCycle(75)
    x='z'

elif x=='bl':
    print("b low")
    pb.ChangeDutyCycle(25)
    x='z'

elif x=='bm':
    print("b medium")
    pb.ChangeDutyCycle(50)
    x='z'

elif x=='bh':
    print("b high")
    pb.ChangeDutyCycle(75)
    x='z'

elif x=='e':
    GPIO.cleanup()
    break

else:
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print("<<<  wrong data  >>>")  
print("please enter the defined data to continue.....")
```

🕒Revision #1

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