P3 motor

```
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BOARD)
motor1=7
motor2=11
GPIO.setup(motor1,GPIO.OUT)
GPIO.setup(motor2,GPIO.OUT)
GPIO.output(motor1,GPIO.HIGH)
GPIO.output(motor2,GPIO.LOW)
sleep(3)
GPIO.output(motor1,GPIO.LOW)
GPIO.output(motor2,GPIO.HIGH)
sleep(3)
P4 anticlockwise
import RPi.GPIO as GPIO
from time import sleep
GPIO.setmode(GPIO.BOARD)
motor1 = 7
motor2 = 11
GPIO.setup(motor1, GPIO.OUT)
GPIO.setup(motor2, GPIO.OUT)
try:
  while True:
    GPIO.output(motor1, GPIO.HIGH)
    GPIO.output(motor2, GPIO.LOW)
    sleep(3)
    GPIO.output(motor1, GPIO.LOW)
    GPIO.output(motor2, GPIO.HIGH)
    sleep(3)
except KeyboardInterrupt:
  GPIO.cleanup()
```

P9 Haar cascades

```
import cv2
from google.colab.patches import cv2 imshow
#reading the image
img = cv2.imread("face.jpg")
#converting image to grayscale
gray img = cv2.cvtColor(img, cv2.COLOR BGR2GRAY)
#Loading the required haar-cascade.xml classifier file
haar cascade = cv2.CascadeClassifier(cv2.data.haarcascades +
"haarcascade frontalface default.xml")
eye cascade = cv2.CascadeClassifier(cv2.data.haarcascades +
"haarcascade eye.xml")
faces_rect = haar_cascade.detectMultiScale(gray_img, 1.3, 5)
eyes = eye cascade.detectMultiScale(gray img)
for(x, y, w ,h) in faces rect:
 cv2.rectangle(img, (x,y), (x+w, y+h), (0,255,0), 2)
 for(ex, ey, ew ,eh) in eyes:
  cv2.rectangle(img, (ex,ey), (ex+ew, ey+eh), (0,255,0), 2)
  cv2_imshow(img)
   cv2.waitKey(0)
```