



```

import cv2
import numpy as np
import RPi.GPIO as IO
import time

IO.setwarnings(False)
x = 1
IO.setmode(IO.BCM)
IO.setup(5, IO.OUT)
IO.setup(17, IO.OUT)
  
```

```

hsv = cv2.cvtColor(frame, cv2.COLOR_BGR2HSV)
lower_blue = np.array([100, 50, 50])
upper_blue = np.array([110, 255, 255])
lower_red = np.array([0, 50, 50])
upper_red = np.array([10, 255, 255])
lower_green = np.array([50, 100, 100])
upper_green = np.array([70, 255, 255])
lower_yellow = np.array([22, 93, 0])
upper_yellow = np.array([45, 255, 255])
  
```

```

mask_b = cv2.inRange(hsv, lower_blue, upper_blue)
result_b = cv2.bitwise_and(frame, frame, mask=mask_b)
mask_r = cv2.inRange(hsv, lower_red, upper_red)
result_r = cv2.bitwise_and(frame, frame, mask=mask_r)
mask_g = cv2.inRange(hsv, lower_green, upper_green)
result_g = cv2.bitwise_and(frame, frame, mask=mask_g)
mask_y = cv2.inRange(hsv, lower_yellow, upper_yellow)
result_y = cv2.bitwise_and(frame, frame, mask=mask_y)
  
```