```python
import cv2
import numpy as np
```
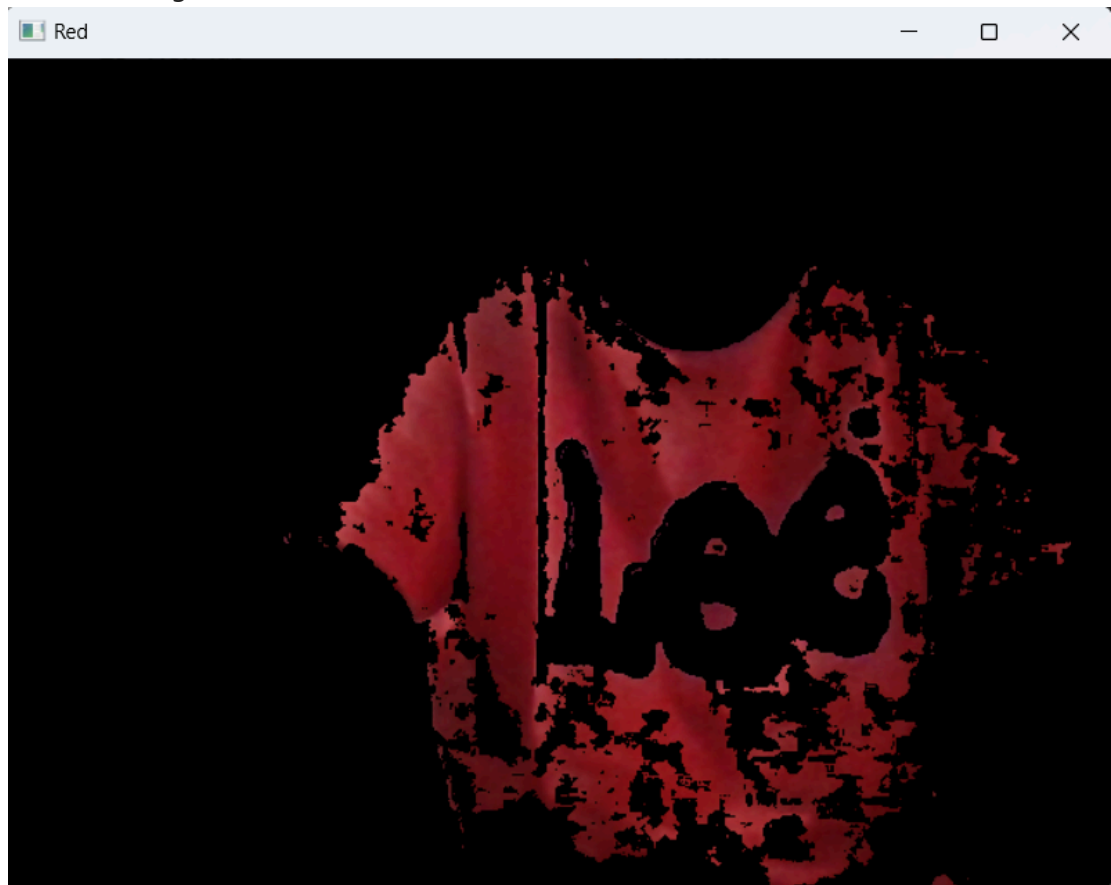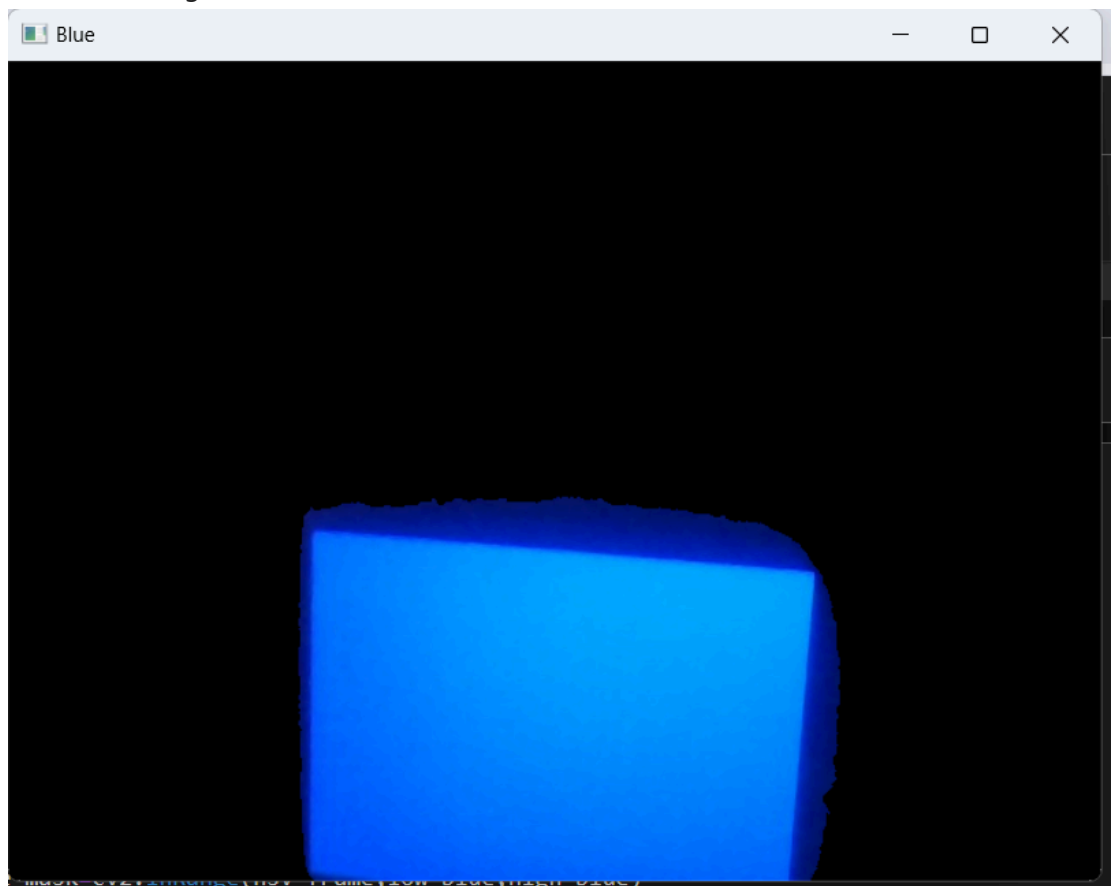
```python
cap = cv2.VideoCapture(0) #opening the web cam
while True:
    _,frame=cap.read() #creating a frame
    hsv_frame=cv2.cvtColor(frame,cv2.COLOR_BGR2HSV) #creating a hsv frame (hsv s
#red
    low_red=np.array([161, 155, 84]) #creation of array for the pixels
    high_red=np.array([179,255,255]) #low red pixel value and high red pixel val
    red_mask=cv2.inRange(hsv_frame,low_red,high_red) #creation of red mask, the
                                    #the mask range is between
    red=cv2.bitwise_and(frame,frame,mask=red_mask)#creation of red detection in
#blue
    low_blue = np.array([100,100,100]) #creation of array for the pixels
    high_blue = np.array([140,255,255])#low blue pixel value and high blue pixel
    blue_mask=cv2.inRange(hsv_frame,low_blue,high_blue)#creation of blue mask, t
                                    #the mask range is betwee
    blue=cv2.bitwise_and(frame,frame,mask=blue_mask)#creation of blue detection
#green
    low_green=np.array([40,100,100])#creation of array for the pixels
    high_green=np.array([70,255,255])#low green pixel value and high green pixel
    green_mask=cv2.inRange(hsv_frame,low_green,high_green)#creation of green mas
                                    #the mask range lies b
    green=cv2.bitwise_and(frame,frame,mask=green_mask)#creation of green detecti


    cv2.imshow('Frame',frame) #show image of frame
    cv2.imshow('Red',red) #show image of red detected camera
    cv2.imshow('Blue',blue)#show image of blue detected camera
    cv2.imshow('Green', green)#show image of green detected camera
    key=cv2.waitKey(1)
    if key==27: #if waitkey is equal to 27 i.e (esc),the loop will break
        break
```
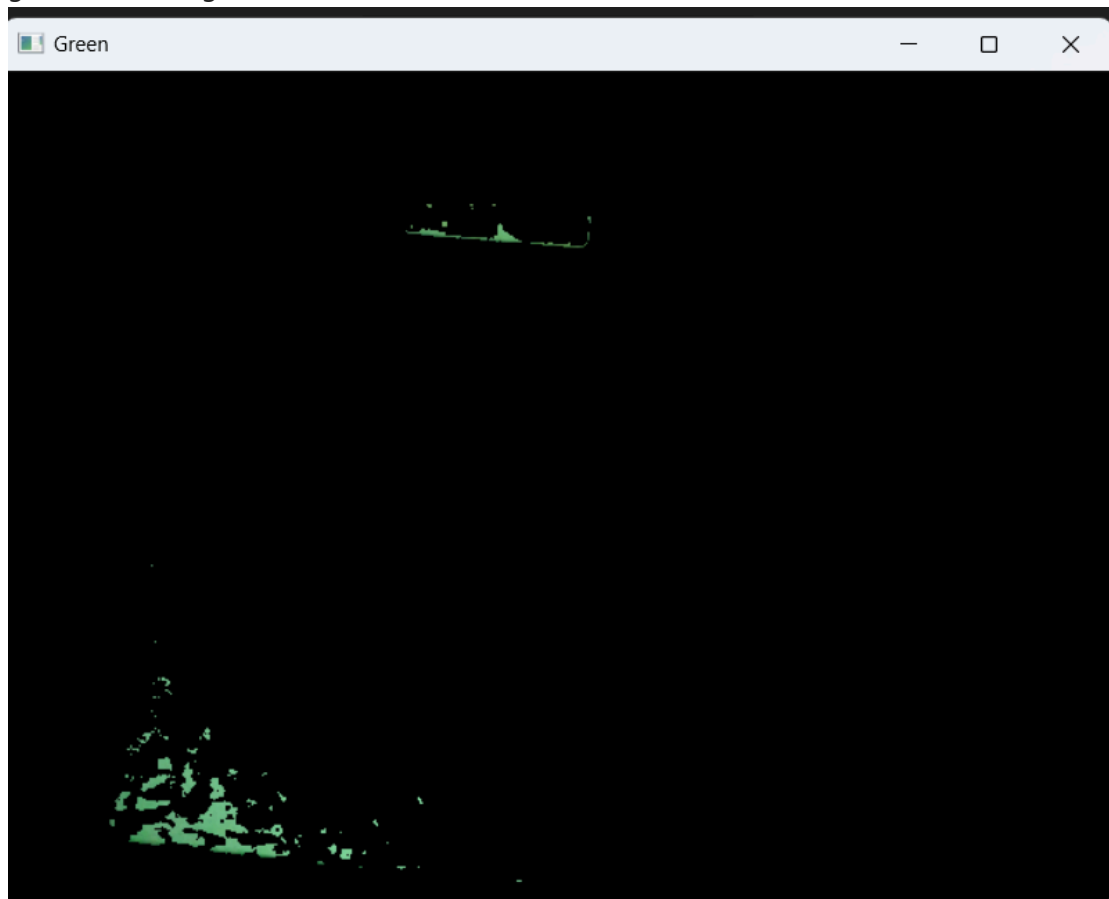
red color image

blue color image

green color image

In [ ]: