

This is the code :

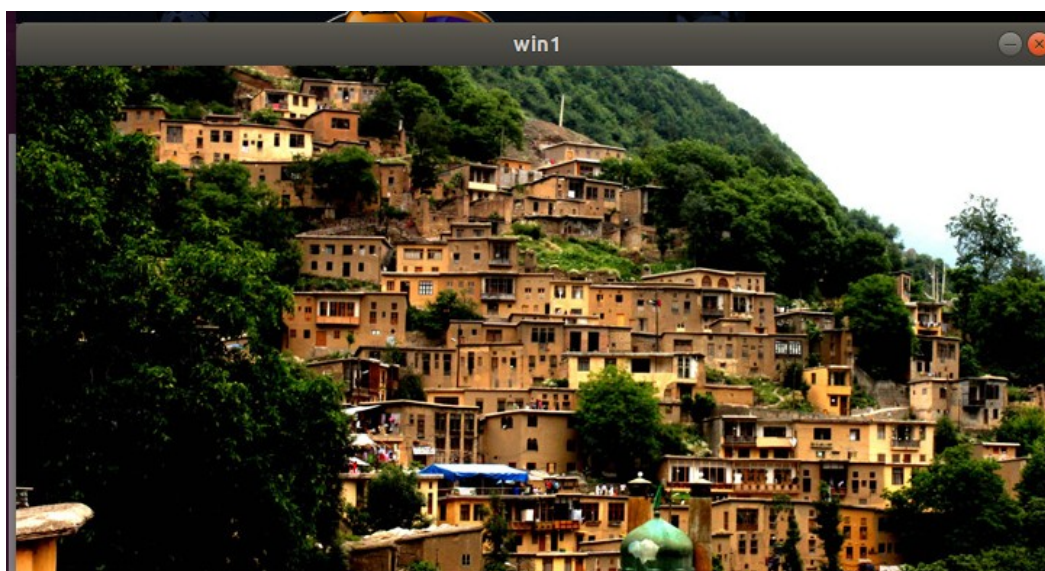
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lab2.1.py
~/vision/lab2
Save

from itertools import groupby
import numpy as np
import cv2
from matplotlib import pyplot as plt
I = cv2.imread('/home/joker/Documents/cv-lab2/masoleh.jpg')
B = I[:, :, 0]
G = I[:, :, 1]
R = I[:, :, 2]
cv2.imshow('win1', I)
green_img = np.zeros(I.shape)
red_img = np.zeros(I.shape)
blue_img = np.zeros(I.shape)

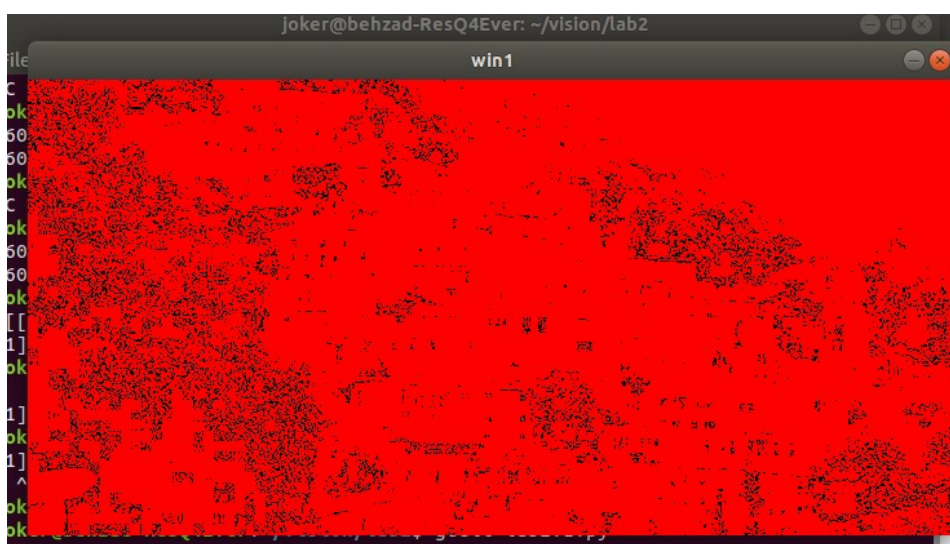
while 1:
    k = cv2.waitKey()
    if k == ord('o'):
        cv2.imshow('win1', I)
    elif k == ord('b'):
        blue_img[:, :, 0] = B
        cv2.imshow('win1', blue_img)
    elif k == ord('g'):
        green_img[:, :, 1] = G
        cv2.imshow('win1', green_img)
    elif k == ord('r'):
        red_img[:, :, 2] = R
        cv2.imshow('win1', red_img)
    elif k == ord('q'):
        cv2.destroyAllWindows()
        break

Python Tab Width: 8 Ln 1, Col 1 INS
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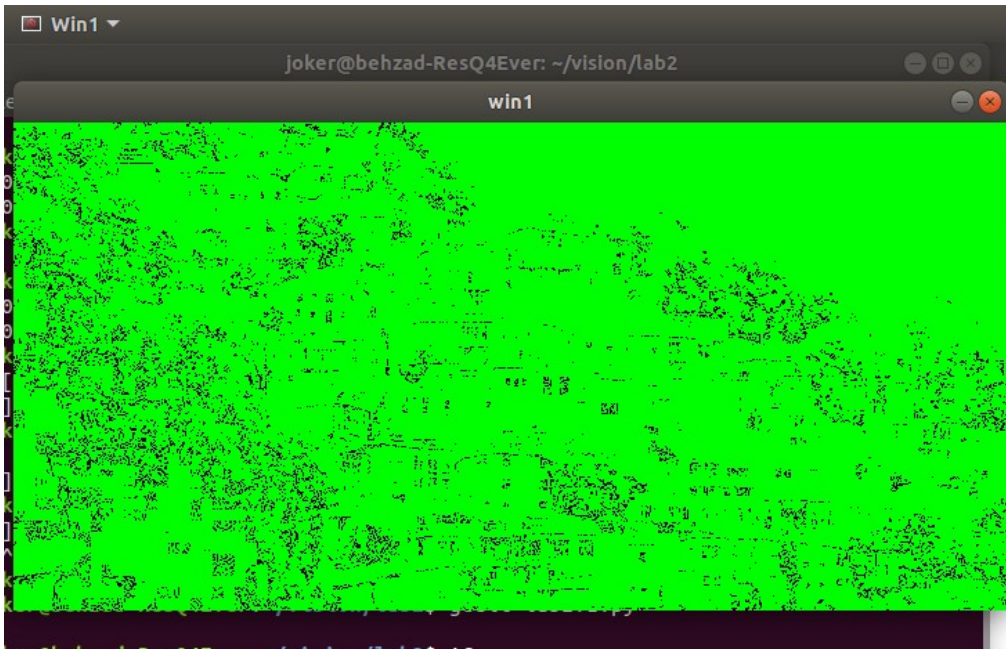
when we press 'o' or the code run the code this image will pop up:



when we press 'r' the original image will show in RED channel:



when we press 'g' the original image will show in GREEN channel:



when we press 'b' the original image will show in BLUE channel:

