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In [1]: import matplotlib.pyplot as plt import numpy as np import cv2

In [6]: #Get the reference to our Webcam #create a VideoCapture object #Normally one camera will be connected. So I simply pass 0 #You can select the second camera by passing 1

WebCam=cv2.VideoCapture(0)

while(True): #reading a new frame #"Frame" will get the next frame in the camera. #"Frame" will obtain return value from getting the camera frame, either true of false ret,frame=WebCam.read()

#show the frame cv2.imshow("New Frame", frame)

#exit the camera if a key pressed(here it is the letter 'q')

if cv2.waitKey(1) & 0xFF == ord("q"):

break

WebCam.release()
cv2.destroyAllwindows()
```

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In [14]: #Save a picture when clicking S key

In [5]: WebCam3 = cv2.VideoCapture(0)
HEIGHT = 500
FrameArray = []

while(True):
    # read a new frame
    ret, frame = WebCam3.read()

# flip the frame
    frame = cv2.flip(frame, 1)

# add rectangle
    cv2.rectangle(frame, (250, 75), (500, 375), (0, 255, 0), 4)

# show the frame
    cv2.imshow("Capturing frames", frame)

key = cv2.waitkey(1)

# quit camera if 'q' key is pressed
    if key & 0xFF == ord("q"):
        break
    elif key & 0xFF == ord("s"):
        # save the frame
    roi = cv2.cvtColor(frame, cv2.COLOR_BGR2RGB)
        FrameArray.append(roi)
```

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# preview the frame
plt.imshow(roi)
plt.show()

WebCam3.release()
cv2.destroyAllWindows()
```



