```
# Import Libraries
import cv2
import sys
import numpy as np
PREVIEW = 0 # Preview Mode
BLUR = 1 # Blurring Filter
FEATURES = 2 # Corner Feature Detector
CANNY = 3 # Canny Edge Detector
# maxCorners --> Maximum Number of Corners Algorithm Will Return
# qualityLevel --> Minimum Threshold for Filtering Corner Features
# minDistance --> Minimum Distance Between Pixel Space. How Close Two Corner Features Can be in the List.
# blockSize --> Size of the Pixel Neighbourhood
feature_params = dict(maxCorners=500, qualityLevel=0.2, minDistance=15, blockSize=9)
s = 0
if len(sys.argv) > 1:
   s = sys.argv[1]
image_filter = PREVIEW
alive = True
windows name = "Camera Filters"
cv2.namedWindow(windows name, cv2.WINDOW NORMAL)
result = None
source = cv2.VideoCapture(s)
while alive:
   has frame, frame = source.read()
   if not has_frame:
       break
    # Use flipCode==0 (vertically), flipCode>0 (Horizontaly), flipCode<0 (vertical & Horizontal)
   frame = cv2.flip(frame, 1)
   if image_filter == PREVIEW:
       result = frame
    elif image filter == CANNY:
        # cv2.Canny(img, Threshold_lower, Threshold_upper) --> to detect the edges in an image
       result = cv2.Canny(frame, 80, 150)
    elif image_filter == BLUR:
        # cv2. blur(src, ksize, dst, anchor, borderType) --> A tuple representing the blurring kernel size
       result = cv2.blur(frame, (13, 13))
    elif image filter == FEATURES:
       result = frame
       frame_gray = cv2.cvtColor(frame, cv2.COLOR_BGR2GRAY)
       corners = cv2.goodFeaturesToTrack(frame gray, **feature params)
       if corners is not None:
           for X, Y in np.float32(corners).reshape(-1, 2):
               cv2.circle(result, (X, Y), 10, (0, 255, 0), 1)
   cv2.imshow(windows name, result)
    key = cv2.waitKey(0)
   if key == ord("Q") or key == ord("q") or key == 27:
       alive = False
    elif key == ord("C") or key == ord("c"):
       image filter = CANNY
    elif key == ord("B") or key == ord("b"):
       image_filter = BLUR
   elif key == ord("F") or key == ord("f"):
       image filter = FEATURES
   elif key == ord("P") or key == ord("p"):
       image_filter = PREVIEW
source.release()
cv2.destroyWindow(windows_name)
```