```
1 import cv2
 2 import numpy as np
 3
 4 with open(r"C:\Users\rkssp\Desktop\TEF0logic PR0JECTS
   \Human Activity Detection\action_recognition_kinetics
   .txt") as f:
       classes = f.read().splitlines()
 5
 6
 7 cap = cv2.VideoCapture(0)
 8 \text{ duration} = 15
 9
10 model = cv2.dnn.readNet(r"C:\Users\rkssp\Desktop\
   TEFOlogic PROJECTS\Human Activity Detection\resnet-
   34_kinetics.onnx")
11
12 while True:
13
       images = []
       for i in range(duration):
14
15
           success, img = cap.read()
           images.append(img)
16
17
18
       blob = cv2.dnn.blobFromImages(images, 1.0, (112,
   112), (114.7748, 107.7354, 99.4750), True, True)
       blob = np.transpose(blob, (1, 0, 2, 3))
19
       blob = np.expand_dims(blob, axis=0)
20
21
22
       model.setInput(blob)
       outputs = model.forward()
23
       label = classes[np.argmax(outputs)]
24
25
26
       # Display the label on the last frame
       cv2.putText(images[-1], label, (10, 25), cv2.
27
   FONT_HERSHEY_SIMPLEX, 0.8, (255, 255, 255), 2)
       cv2.imshow('Image', images[-1])
28
29
       if cv2.waitKey(1) & 0xff == ord('q'):
30
31
           break
32
33 cap.release()
34 cv2.destroyAllWindows()
35
```