```
In [ ]: ### opnen cv exmple
 In [1]: import cv2
In [16]: image= cv2.imread(r"C:\Users\shubham lokare\Downloads\Virat Kohli in PMO New Delhi.jpg")
                  cv2.imshow('shubham' , image)
                  cv2.waitKev()
                  cv2.destroyAllWindows()
In [17]: ## load the image and convert rgb color into gray color
                  import cv2
                  face\_classifier = cv2.CascadeClassifier (r"C:\Users\shubham lokare\Downloads\haarcascade\_frontalface\_default.xml) + (constant of the constant of the constan
                  if face classifier.empty():
                          raise Exception("Failed to load cascade classifier. Check the path and file existence.")
                  # Read the image
                  image = cv2.imread(r"C:\Users\shubham lokare\Downloads\Virat Kohli in PMO New Delhi.jpg")
                  # Convert image to grayscale
                  gray = cv2.cvtColor(image, cv2.COLOR BGR2GRAY)
                  # Detect faces
                  faces = face_classifier.detectMultiScale(gray, 1.3, 5)
                  # If no faces found
                  if len(faces) == 0:
                         print("No face found")
                  else:
                          # Draw rectangle around each face
                         for (x, y, w, h) in faces:
                                 cv2.rectangle(image, (x, y), (x + w, y + h), (127, 0, 225), 2)
                          # Display the output image with detected faces
                          cv2.imshow("Face Detection", image)
                          cv2.waitKey(0)
                  cv2.destroyAllWindows()
In [19]: #### face and eye detection
                  import cv2
                  face\_classifier = cv2. Cascade Classifier (r"C: \Users \shubham \ lokare \Downloads \haar cascade\_front alface\_default.xml) \\
                  eye_classifer = cv2.CascadeClassifier(r"C:\Users\shubham lokare\Downloads\haarcascade_eye.xml")
                  ### load the image
                  image = cv2.imread(r"C:\Users\shubham lokare\Downloads\Virat_Kohli_in_PMO_New_Delhi.jpg")
                  ### convert the image in gray
                  gray = cv2.cvtColor(image,cv2.COLOR BGR2GRAY)
                  ### the detect the feature of image
                  faces = face_classifier.detectMultiScale(gray,1.3 ,5)
                  if len(faces)==0:
                         print("face is not found")
                  else :
                          for (x,y,w,h) in faces :
                                 cv2.rectangle(image ,(x,y) ,(x + w , y + h) ,(127,0,225) ,2)
                                 cv2.imshow('face_detection' ,image)
                                 cv2.waitKey(0)
                                 roi gray = gray[y:y+h , x:x+w]
                                 roi_color = image[y:y+h , x:x+w]
                                 eye = eye classifer.detectMultiScale(roi gray)
                                 for (ex ,ey,ew,eh) in eye:
                                         cv2.rectangle(roi\_color,(ex,ey),(ex + ew , ey + eh),(255,255,0),2)
                                         cv2.imshow('face' ,image)
                                         cv2.waitKey(0)
                  cv2.destroyAllWindows()
```

