```
import cv2
def count_faces_in_image(image_path):
  Counts the number of faces in the given input image.
  # Load Haar cascade
  face_cascade = cv2.CascadeClassifier(cv2.data.haarcascades +
"haarcascade_frontalface_default.xml")
  # Read image
  image = cv2.imread(image_path)
  if image is None:
    raise FileNotFoundError(f"Image not found: {image_path}")
  # Convert to grayscale
  gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
  # Detect faces
  faces = face_cascade.detectMultiScale(gray, scaleFactor=1.1, minNeighbors=5, minSize=(30, 30))
  # Draw rectangles (optional)
  for (x, y, w, h) in faces:
    cv2.rectangle(image, (x, y), (x + w, y + h), (0, 255, 0), 2)
  # Show result
  cv2.imshow("Detected Faces", image)
  cv2.waitKey(0)
  cv2.destroyAllWindows()
```

38. Write a Python function to Count the number of faces for the given input image using Open CV.

## return len(faces)

# === Correct usage below ===

image\_path = r"C:\Users\harik\Downloads\CV LAB\people.jpeg" # <-- YOUR INPUT GOES HERE</pre>

face\_count = count\_faces\_in\_image(image\_path)

print(f"Number of faces detected: {face\_count}")

## OUTPUT:

