Face Detection Code

* Inputimage = cv2.imread(img)
* image = face\_recognition.load\_image\_file(img)
* face\_locations = face\_recognition.face\_locations(image)
* face\_image = image[top:bottom, left:right]
* cv2.rectangle(inputimage, (left, top), (right, bottom), (0, 0, 255), 2)

After giving an input image ,

• cv2.imread() is used to read the image

• face\_recognition - Library used for face recognition. , it calls a function called load\_image\_file

which converts the loaded image into a FaceRecognition object.

face\_location() function is used for Feature extraction. It extracts the coordinates from a given image like top, right, bottom, left.

using cv2 rectangle method, a rectangle is drawn around the detected face. the coordinates required here are

Syntax: cv2.rectangle(image, start\_point, end\_point, color, thickness)

Parameters:

image: It is the image on which rectangle is to be drawn.

start\_point: It is the starting coordinates of rectangle.

end\_point: It is the ending coordinates of rectangle.

color: It is the color of border line of rectangle to be drawn.

thickness: It is the thickness of the rectangle border line in px.