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**Sub: Soft Computitng Batch: B2**

**Experiment 8 : Open CV for Computer Vision**

In [ ]:

**import** cv2

In [ ]:

scale\_percent **=** 20 *# percent of original size* width **=** int(img**.**shape[1] **\*** scale\_percent **/** 100) height **=** int(img**.**shape[0] **\*** scale\_percent **/** 100)

dim **=** (width,height)

In [ ]:

faceHar **=** cv2**.**CascadeClassifier('haarcascade\_frontalface\_default.xml') img **=** cv2**.**imread('./Kshit.JPG')

imgGray **=** cv2**.**cvtColor(img, cv2**.**COLOR\_BGR2GRAY)

faces **=** faceHar**.**detectMultiScale(imgGray, 1.1, 4)

In [ ]:

**for** (x, y ,w, h) **in** faces:

cv2**.**rectangle(img, (x, y), (x**+**h, y**+**w), (0, 255, 0), 2)

resized **=** cv2**.**resize(img, dim, interpolation **=** cv2**.**INTER\_AREA)

In [ ]:

cv2**.**imshow("Result", resized)

cv2**.**waitKey(0)

Out[ ]: -1

Output :

