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Roll No: TETB19

Sub: Soft Computitng

Batch: B2

Experiment 8 : Open CV for Computer Vision

In [ ]:
```python
import cv2
```

In [ ]:
```python
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 [ ]:
```python
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 [ ]:
```python
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 [ ]:
```python
cv2.imshow("Result", resized)

cv2.waitKey(0)
```

Out[ ]: -1