

Robotics- ROS Assignment 9

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Build the face detection application using OpenCV

Below code will detect face

```
import cv2;
```

```
face_cascade =  
cv2.CascadeClassifier('haarcascade_frontalface_default.xml');
```

```
video = cv2.VideoCapture(0);
```

```
while True:
```

```
    check, frame = video.read();
```

```
    faces = face_cascade.detectMultiScale(frame,  
                                           scaleFactor=1.1, minNeighbors=5);
```

```
    for x,y,w,h in faces:
```

```
        frame = cv2.rectangle(frame, (x,y), (x+w,y+h), (0,255,0), 3);
```

```
    cv2.imshow('Face Detector', frame);
```

```
    key = cv2.waitKey(1);
```

```
if key == ord('q'):
    break;
```

```
video.release();
cv2.destroyAllWindows();
```