Assignment 6

Develop a python code to detect any object using Haar cascade classifier.

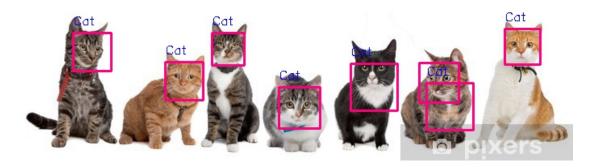
R.S.Vimal 19BEE1045

```
CODE
import cv2
cat_classifier=cv2.CascadeClassifier("haarcascade_frontalcatface_extend
ed.xml")
image=cv2.imread('cat.jpg')
cv2.imshow('Image',image)
cats = cat_classifier.detectMultiScale(image, 1.3,5)
print(cats)
for(x,y,w,h) in cats:
  cv2.rectangle(image, (x,y), (x+w,y+h), (127,0,255), 2)
  cv2.imshow('Cat detection', image)
  cv2.putText(image, 'Cat',(x,y-10), cv2.FONT_HERSHEY_SIMPLEX, 0.5,
(255,0,0), 1)
  Key=cv2.waitKey(1)
  if Key==ord('q'):
     video.release()
     cv2.destroyAllWindows()
     Break
```

INPUT IMAGE



OUTPUT IMAGE



OUTPUT

