

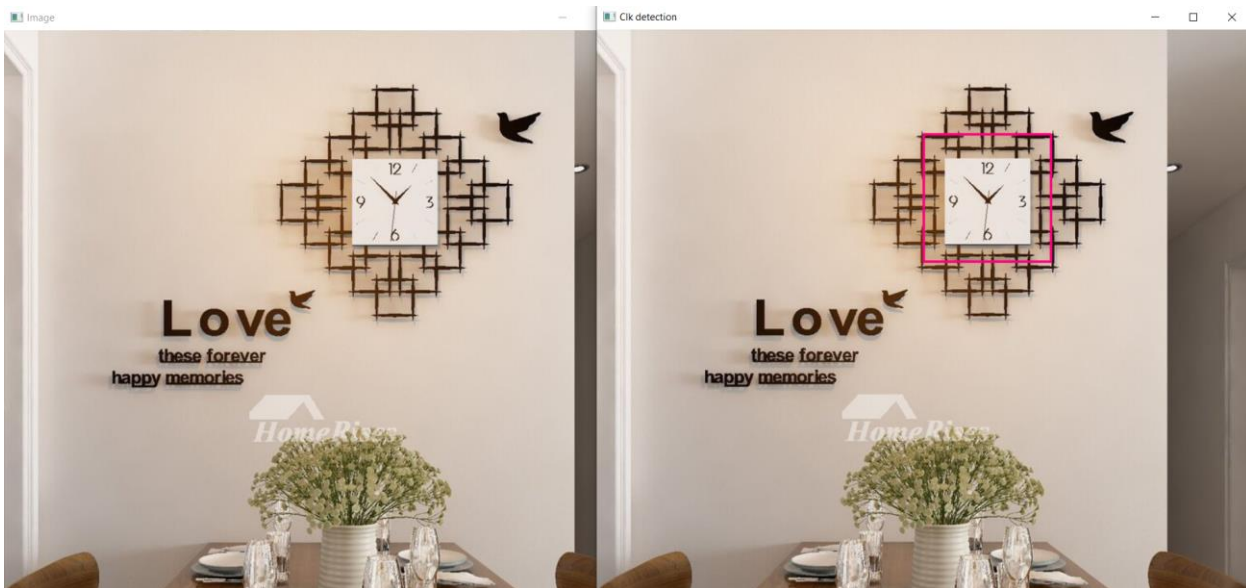
Assignment-6

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

Clock image:



Python shell:

```
IDLE Shell 3.9.6
File Edit Shell Debug Options Window Help
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/sriba/Desktop/IOT/varsha/clock.py =====
[[398 127 155 155]]
>>> |
```

Code :

```
import cv2
```

```
clk_classifier=cv2.CascadeClassifier("haarcascade_wallclock.xml")
```

```
#It will read the first frame/image of the video
```

```
image=cv2.imread('clock.jpg')
```

```
cv2.imshow('Image',image)
```

```
clk = clk_classifier.detectMultiScale(image,1.3,5)
```

```
print(clk)
```

```
for(x,y,w,h) in clk:
```

```
cv2.rectangle(image, (x,y), (x+w,y+h), (127,0,255), 2)
```

```
cv2.imshow('Clk detection', image)
```

```
cv2.putText(image, 'Clk',(x,y-10), cv2.FONT_HERSHEY_SIMPLEX, 0.5, (255,0,0), 1)
```

```
Key=cv2.waitKey(1)
```

```
if Key==ord('q'):
```

```
    #release the camera
```

```
video.release()
```

```
    #destroy all windows
```

```
cv2.destroyAllWindows()
```

```
break
```