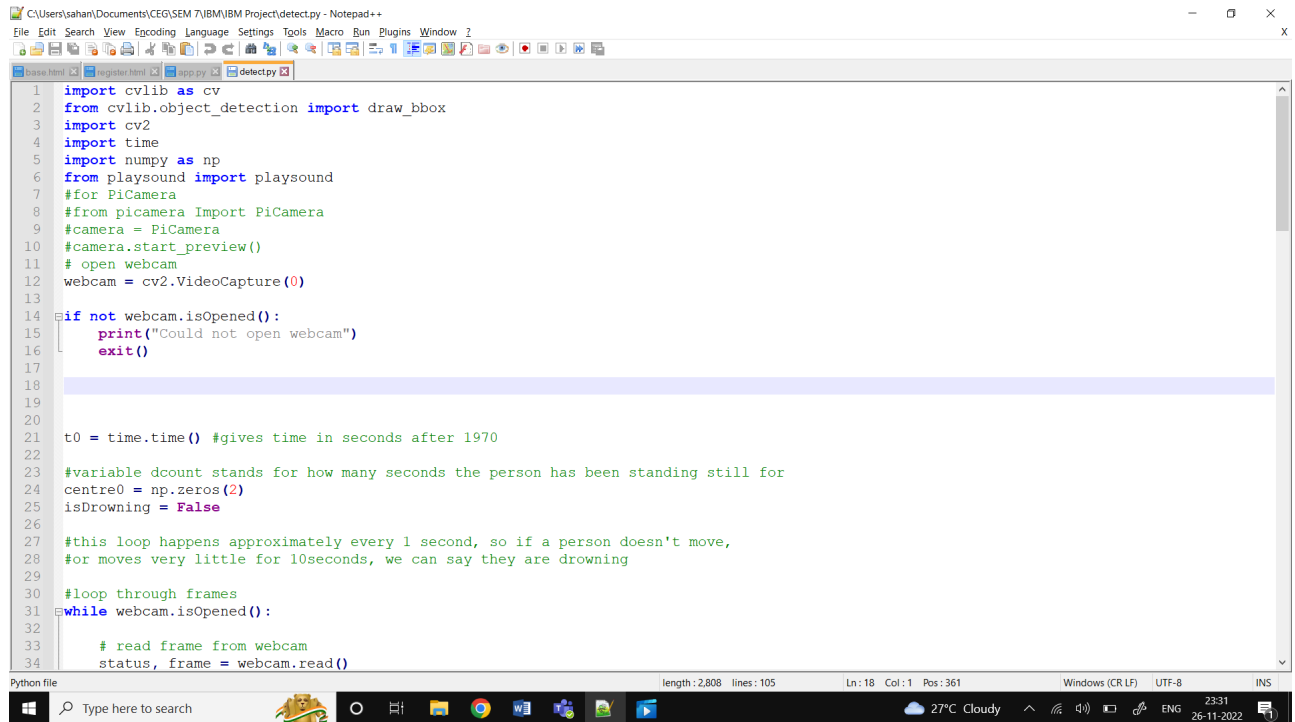


## Project Development Phase

### Sprint 3- Test Cases

Date	15 November 2022
Team ID	PNT2022TMID35350
Project Name	Project - VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	8 Marks



```
1  import cvlib as cv
2  from cvlib.object_detection import draw_bbox
3  import cv2
4  import time
5  import numpy as np
6  from playsound import playsound
7  #for PiCamera
8  #from picamera Import PiCamera
9  #camera = PiCamera
10 #camera.start_preview()
11 # open webcam
12 webcam = cv2.VideoCapture(0)
13
14 if not webcam.isOpened():
15     print("Could not open webcam")
16     exit()
17
18
19
20
21 t0 = time.time() #gives time in seconds after 1970
22
23 #variable dcount stands for how many seconds the person has been standing still for
24 centre0 = np.zeros(2)
25 isDrowning = False
26
27 #this loop happens approximately every 1 second, so if a person doesn't move,
28 #or moves very little for 10seconds, we can say they are drowning
29
30 #loop through frames
31 while webcam.isOpened():
32     # read frame from webcam
33     status, frame = webcam.read()
34
```

Python file | length: 2,808 | lines: 105 | Ln: 18 | Col: 1 | Pos: 361 | Windows (CR LF) | UTF-8 | INS

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