Project Development Phase
Sprint - 4

Date	12 November 2022
Team ID	PNT2022TMID51944
Project Name	Virtual Eye - Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	4 Marks

➢ In this Sprint we have executed the code successfully and the output Screenshot is attached in this file in which a person is detected drowning.

➢ After the detection of drowning the alarm sound will be activated and Life guards rescues that person from drowning.

```python
app.py > ...
  1     import re
  2     import numpy as np
  3     import os
  4     from flask import Flask, app,request,render_template
  5     import keras
  6     from keras import models
  7     from keras.models import load_model
  8     from keras.preprocessing import image
  9     from tensorflow.python.ops.gen_array_ops import concat
 10     from keras.applications.inception_v3 import preprocess_input
 11     import cvlib as cv
 12     from cvlib.object_detection import draw_bbox
 13     import cv2
 14     import time
 15     import numpy as np
 16     from playsound import playsound
 17     import requests
 18     from flask import Flask, request, render_template, redirect, url_for
 19     #Loading the model
 20
```

PROBLEMS 2   OUTPUT   DEBUG CONSOLE   **TERMINAL**   JUPYTER   SQL CONSOLE

```
4.821165323257446 s
bbox:  [[121, 114, 801, 370]] centre: [461.0, 242.0] centre0: [460.0, 242.0]
Is he drowning:  False
6.015161514282227 s
bbox:  [[123, 114, 801, 370]] centre: [462.0, 242.0] centre0: [461.0, 242.0]
Is he drowning:  False
7.217049837112427 s
bbox:  [[154, 103, 790, 371]] centre: [472.0, 237.0] centre0: [462.0, 242.0]
Is he drowning:  False
8.357762813568115 s
bbox:  [[154, 103, 786, 369]] centre: [470.0, 236.0] centre0: [472.0, 237.0]
Is he drowning:  False
9.569571495056152 s
bbox:  [[166, 96, 794, 370]] centre: [480.0, 233.0] centre0: [470.0, 236.0]
Is he drowning:  False
11.458506345748901 s
bbox:  [[166, 93, 796, 371]] centre: [481.0, 232.0] centre0: [480.0, 233.0]
Is he drowning:  True
```