Face-Recognition Application Including Building A GUI Using Tkinter & other Python Modules

Asmaa Gamal Abdel-Halem Mabrouk Nagy   **15010473**
Noha Mohamed Hassan Sayed Fesha   **18015041**

We are using tkinter, a python module, to create the Graphical User Interface(GUI) in which our application is gonna be wrapped in. Opening the camera and showing a green box that detects the face with the name specified by the database dictionary are some examples for the actions that could be performed by our program. As we all know that face recognition is a branch of Machine learning that can uses OpenCV librieries and this facical recognization includes the process of converting the facical recorded attendance into text written in a specified file. Knowing that a facial recognition system is a technology capable of matching a human face from a digital image or a video frame against a database of faces, will typically employed to authenticate users through ID label verification services, which works by pinpointing and measuring facial features from a given training images database. This is possible by using Python which offers good major libraries so that we can use them for making facial recognition an amazing A.I. application that is very helpful for securing devices like laptops and phones.