# CHAPTER 6
# CONCLUSION

Based on research conducted on the project of detecting a person using glasses through live video and the application of the haarcascade classifier method, it can be concluded that:

1. The results of detecting a person using glasses are going quite well but still not perfect because the detection program for someone using glasses does not detect it accurately because the eyeglass lens has light reflecting off so that the program does not run optimally. The solution that can be done is by detecting someone who is wearing glasses by using non-reflective eyeglass lenses so that the program can run properly and according to the program's workflow.
2. The results of detecting a person using glasses via live video in low light conditions get quite good results but are still not perfect because if the detection of glasses is carried out in too dark light conditions, the program cannot detect the face and eyes of the person in the video. So that the detection of glasses can not run optimally. The solution that can be done is that while the program is running, it must be carried out in bright enough light conditions so that the program can run optimally and detect a person's face and eyes to be able to conclude that the person is wearing glasses or not.
3. In this project, the detection of people with glasses can only be done through the front view of the person's face, while from the side and back view of the person's face it cannot be done because the program can only detect the face and eyes of that person. The solution that can be done is by making improvements to the program by detecting the glasses frame used by the person so that the program can detect the person through the side and back view of the person's face.
4. As long as the program is running in detecting the glasses used by the person, the face and eye objects must not be blocked by other objects so that the program can run optimally, whereas if there are other objects that block the face and eye objects, the program cannot run in performing the task. glasses detection.

Based on the conclusions above, the following are suggestions that can be made for further research:

1. The project of detecting people who use glasses through live video can be done by using glasses that have non-reflective lenses so that the program can detect glasses properly, because if there are lenses that reflect light, the program will not be optimal in detecting the glasses.
2. The project of detecting people who use glasses through live video can be developed by using CCTV cameras or cameras that have higher or better pixel quality, so that in the program the detection of someone who uses glasses can run more accurately and optimally.
3. The development of a project to detect someone who uses glasses can be done by detecting the frame of the glasses worn by that person, so that the program can detect it through the side and back view of the person's face.