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This lab5 is accomplished by Yihan Dai, Yitong Wang and Sihan Wu together.

This lab includes 2 parts, Xcode part, and Raspberry pi part.

1. Xcode part:

   This part is used for establishing an ios application display interface, including ip address label, open gripper and close gripper button, and reset button. Users can input the address of raspberry pi into the ip address text field through the app and connect it to the raspberry pi. By pressing the open gripper, close gripper button, the robotic arm can make gripper either close or open according to the button you pressed. And reset makes the robotic arm recover to the original state.

2. Raspberry pi part:

   After successfully connecting the raspberry pi to the ios application, the raspberry pi can receive the instructions from the app and make appropriate actions. That is, it can move right, move left, move up, move down, move backward and move forward. Besides, it can open or close gripper for the instructions from the app.