

APPENDIX A

SAMPLE SCREEN SHOTS

To start with, first we need to connect the Arduino Uno (Microcontroller) with the laptop. Arduino requires 5V power supply for its working. To connect Arduino with the laptop Type B USB cable is required. Figure A1 depicts the Type B USB cable.



Figure A1 Type B USB Cable

COURTESY: A QUICK ROMP ARDUINO UNO DYLAN A. SHELL

Figure A2 is the screenshot of all the modules before connecting. The picture consists of the jumper wires, Bluetooth Module (HC-05), Arduino UNO (Microcontroller), Stepper Motor and its Driver A4988.



Figure A2 Before Connecting

Figure A3 represents the screenshot of all the modules after connecting. Appropriate connections are made between the modules and draws power from the laptop.

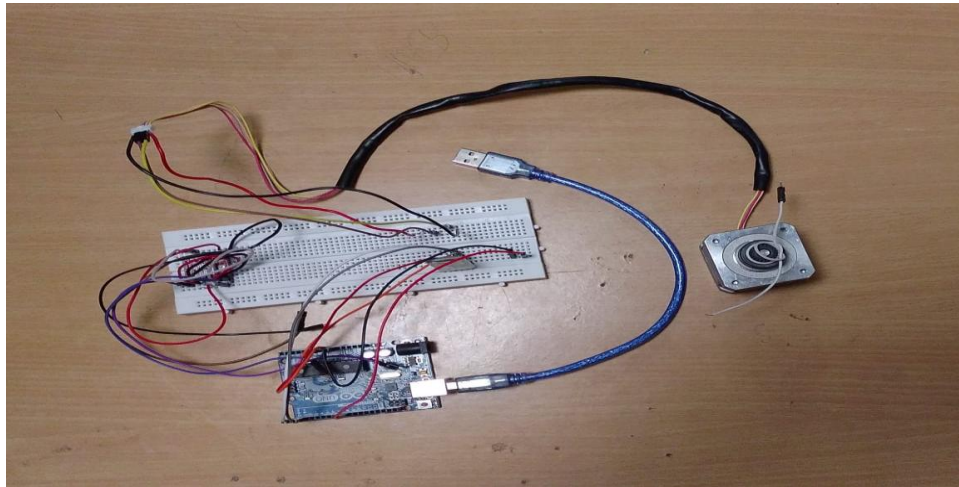


Figure A3 After Connecting

A4988 requires 12V power supply which can be provided with the help of external adaptor. Figure A4 depicts the 12V external adaptor to start its action.



Figure A4 12V Adaptor

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After the code is written, it can be uploaded into the modules by clicking the compile and upload button in Arduino IDE. Figure A5 displays the Arduino IDE with compile and upload buttons.

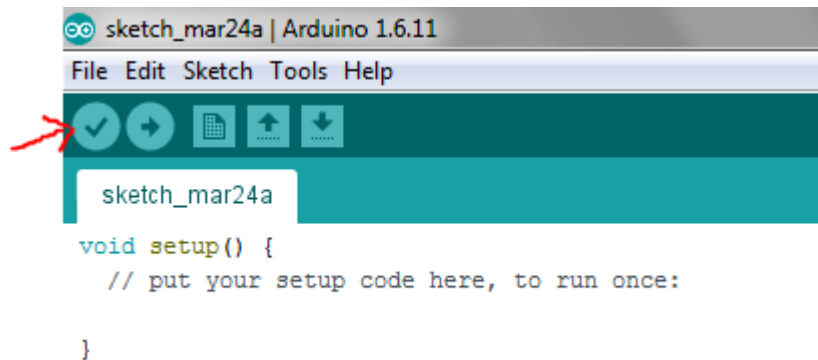


Figure A5 Compiling and uploading the code

After setting up the system, the user needs to pair the mobile Bluetooth with HC-05(Bluetooth) module in the system via mobile application. After pairing the Bluetooth devices, user need to choose the type of blade from the mobile application and press start button to chop the vegetables. Figure A6 represents the screenshot of mobile application.

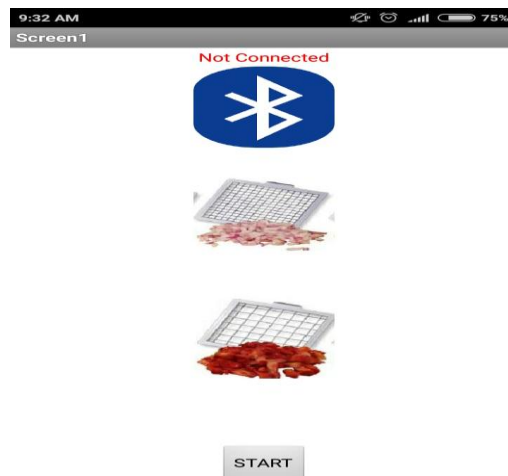


Figure A6 Android Mobile Application

Figure A7 represents the screenshot of available Bluetooth devices. This screenshot displays all the available Bluetooth devices within the range. From the available list of devices in the mobile application, users need to choose the HC-05 Bluetooth module and to pair with the mobile phone.



Figure A7 Available Bluetooth Devices