|  |  |  |  |
| --- | --- | --- | --- |
| Sl No. | Sensor/Module | Sensor/Module Pin | Arduino Pin |
| 1 | RTC Module | RST | 22 |
|  |  | DATA | 23 |
|  |  | CLK | 24 |
| 2 | DHT11 | Signal | 25 |
| 3 | Relay module | INC1 | 26 |
|  |  | INC2 | 27 |
| 4 | Water level sensor | Low | 28 |
|  |  | Medium | 29 |
|  |  | High | 30 |
| 5 | Soil moisture sensor | Analog Output | 31 |
| 6 | Motor driver (Pump & Cooler) | A | 32 |
|  |  | B | 33 |
|  |  | C | 34 |
|  |  | D | 35 |
| 7 | Motor Driver (Stepper) | A | 36 |
|  |  | B | 37 |
|  |  | C | 38 |
|  |  | D | 39 |
| 9 | Filling Sensor | Digital Output | 40 |
| 10 | LED indicator tank | R | 41 |
|  |  | B | 42 |
|  |  | G | 43 |
| 11 | Soil Moisture Indicator | R | 44 |
|  |  | B | 45 |
|  |  | G | 46 |
| 12 | Arduino Uno | A4 | 47 |
| 13 |  | A5 | 48 |

Insert the TFT module in to the arduino mega and note down the pins, then connect them using jumper cables

|  |  |  |  |
| --- | --- | --- | --- |
| Sl.no | Sensor/Module | Sensor/Module Pins | Arduino Pins |
| 1 | Arduino mega | SDA | A4 |
|  |  | SCL | A5 |
| 2 | MP3 Module | TX | 11 |
|  |  | RX | 10 |
| 3 | Light Sensor | Analog Output | A0 |
| 4 | Touch Sensor | 1M Resistor between  4th and 6th pin of UNO | A single line output taking from the 6th pin as sensor wires to the plant |