

APPENDIX

The above code 1-12 is an addition to the library and determines the port for Arduino Uno

```
1. #include <Servo.h> // menambahkan libray servo
2. #include <HX711_ADC.h> //menambahkan libray timbangan
3. #include "DHT.h" // menambahkan libray suhu
4. #define DHTPIN 8 //menambahkan angka 8 sebagai port milik dht
5. #define DHTTYPE DHT11 //menambahkan dht11 sebagai type dht
6. int sensor_hujan = A1; //sebagai port Sensor Hujan
7. int hujan,cahaya,suhu,berat; //var kontrol
8. int HX711_dout = 6; //menambahkan angka 6 sebagai value dari variabel
   HX711_dout
9. int HX711_sck = 9; //menambahkan angka 9 sebagai value dari variabel
   HX711_sck
10. Servo myservo;
11. DHT dht(DHTPIN, DHTTYPE);
12. HX711_ADC LoadCell (HX711_dout, HX711_sck);
```

The code 13-22 above is void setup is a sketch or Arduino program starts, running the void setup() function. This function is used to initialize variables, declare which pins to use, use libraries, etc..

```
13. void setup() {
14.   Serial.begin(9600);
15.   myservo.attach(11);
16.   pinMode(sensor_hujan, INPUT);
17.   dht.begin();
18.   LoadCell.begin();
19.   LoadCell.start(2000);
20.   LoadCell.setCalFactor(1.0);
21. }
22. uint8_t panas, terang;
```

Void loop()

```
23. void loop() {
```

Reading light sensor

```
24. //cahaya
25.   int analogValue = analogRead(A0);
26.   Serial.println("nilai"+String(analogValue));
27.   Serial.println((String) ((terang=! (analogValue
   700))?"terang":"gelap"))+"\r\n"); >
```

Reading rain sensor

```
28.   //hujan
29.   Serial.println((String) ((hujan=!digitalRead(sensor_hujan))?"hujan":"
   cerah"))+"\r\n"); }
```

Reading temperature sensor

```
30. //temperatur
```

```
31. float suhu = dht.readTemperature();
32. Serial.println((String)"Suhu: " + String(suhu));
33. Serial.println((String) ((panas=suhu>30)?"panas":"dingin")+"\r\n");
```

Reading the weighing sensor

```
34. //timbangan
35. LoadCell.update();
36. int32_t berat = LoadCell.getData();
37. Serial.print((String)"Weight:" + String(berat)+"\r\n");
38. berat=berat>50;
```

Execute the all sensor

```
39. myservo.write((berat?hujan?0:terang?panas?1:0:0:0)?150:10);
40.
41. delay(3000);
42. }
```



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