CHAPTER 5
IMPLEMENTATION AND TESTING

5.1 Implementation

Using rain drop and ldr sensor as input sensor. Heres the input pin for both sensor.

```
#include<Servo.h>

Servo myServo;

const int pinRain = 3;

const int pinLdr = A0;
```

Pin ldr was on analog input number 0 because with analog we can give the exact nuimber for sunlight intensity.

```
if (hujan == 0 && cahaya <=400)

{

myServo.write(close);

}

        else if (hujan == 0 && cahaya >=400)

{

myServo.write(close);

}

        else if (hujan == 1 && cahaya >=400)

{

myServo.write(open);

}

        else if (hujan == 1 && cahaya <=400)

{

myServo.write(close); }
```

5.2 Testing

Youtube: https://www.youtube.com/watch?v=G4RS4LW1_m4

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When weather is fine and sensor ldr got too much light, roof will close.

When weather is raining and sensor ldr got no light, roof will close.

When weather is raining and sensor ldr got light,roof will close.

When weather is fine and sensor ldr got no light, roof will open.