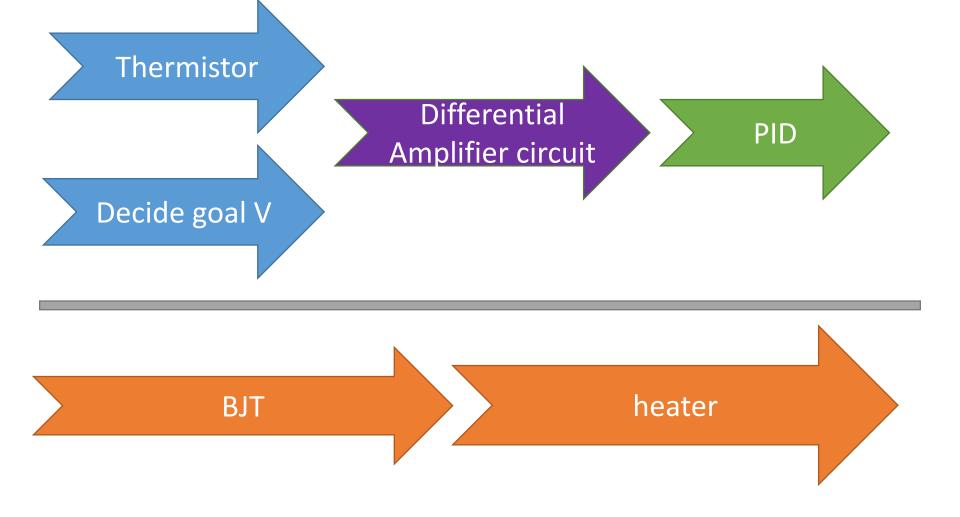
Group 02 HW 14 2020/6/9

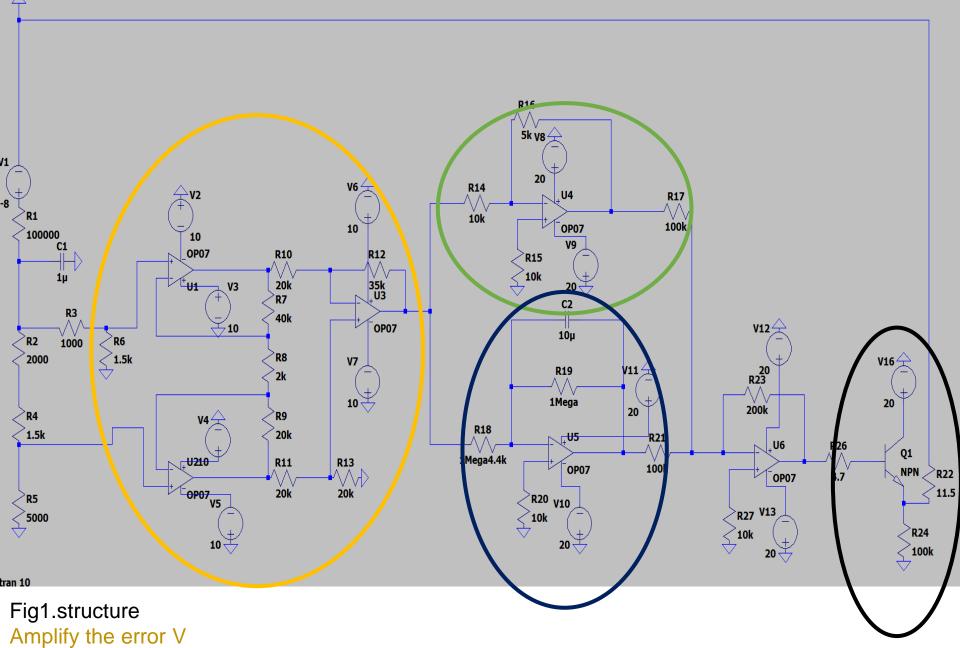
ID	Name	Your works	Time	Score	TA
107601025	簡邵偉	Final project	10H	90	
108202016	張家菖	Final project	10H	95	



This week, we have almost done our project, however, when we were testing our heat controller, it just heated the water, and it did not stop warming as it reached the goal temperature.

We found the reason why it couldn't control was that the resistor for setting goal temperature would provide a small voltage when the water temperature was almost reaching our goal temperature, and our amplifier will amplify it too large so that it still made the heater working.

We may try to fix this problem by **adjusting our main circuit this week**, re-test our controller, record our data and write the report.



PID(we remove the D because the parameter of D is too small in our system)

Emitter follow

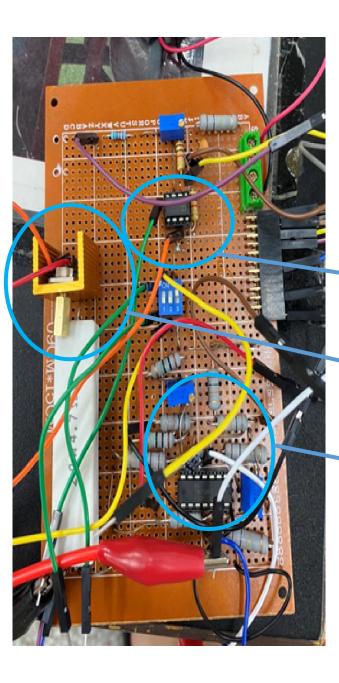


Fig:2 Welded **main circuit.**

Amplifier circuit

BJT (emitter follower)

PΙ

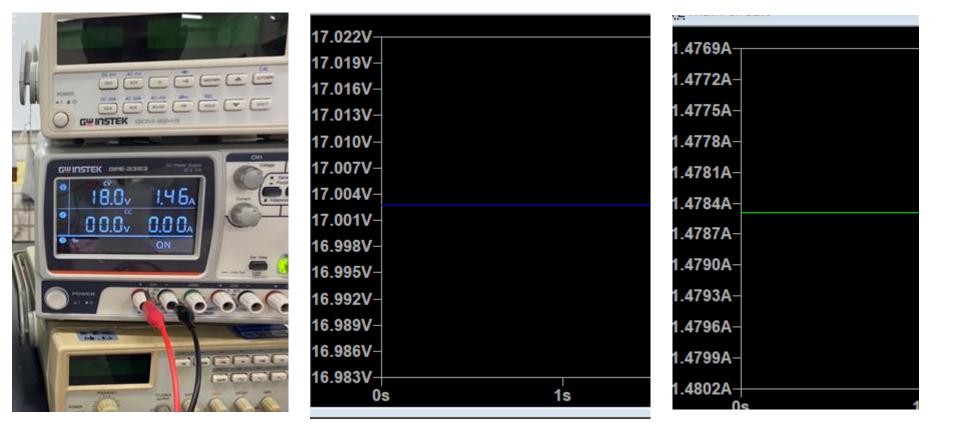


Fig:3 Date.
Our main circuit provided the voltage(18V) and current(1.46A).

Fig:4 Modeling Our modeling of main circuit provided the voltage (17V) the current (1.4784A)

Fig 3 and fig 4 show that our product works

This week:
1. Adjusting our main circuit.
2. Analyzing the data
3. Write the report
Next week:
1. Oral presentation
Cost:
Total: about 1800NTD