



Automatic Protector

— A Heating System —

What is it

What we need

To Control the temperature
for an object



Why design this

To protect something
needed careful control of
temperature, e.g. medicine

For the prototype

The temperature needed is
between the room temperature
and room temperature + 2°C

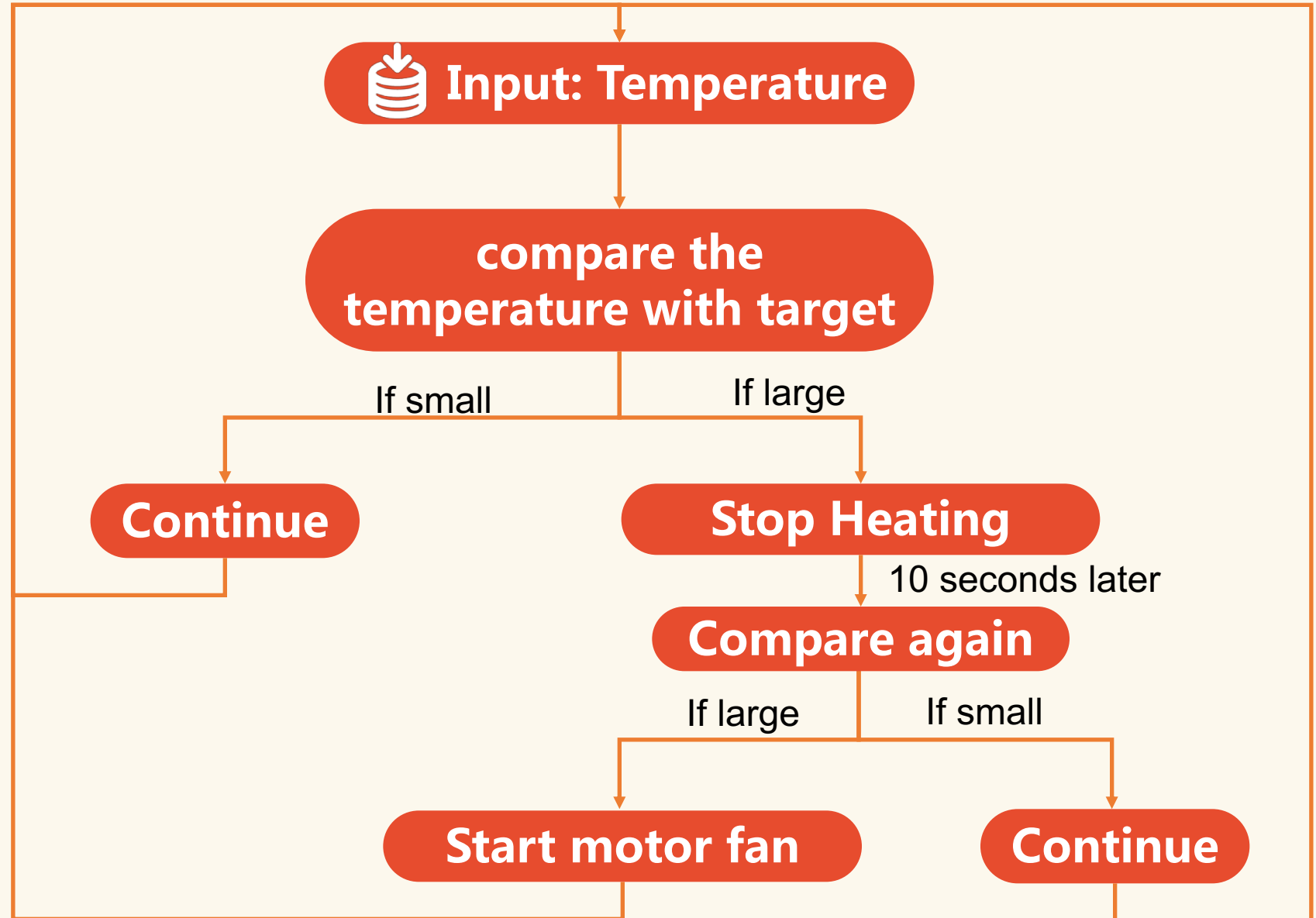
Design process

Components

Heater

Temperature sensor

Motor fan

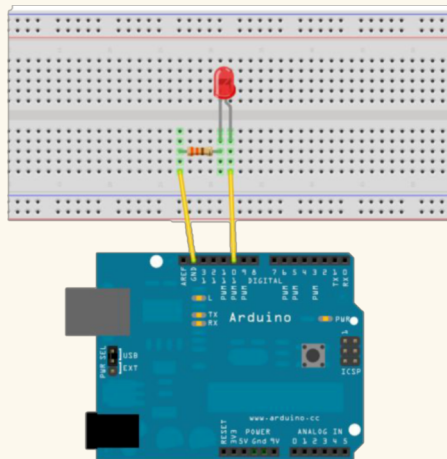


Implementation

Heater



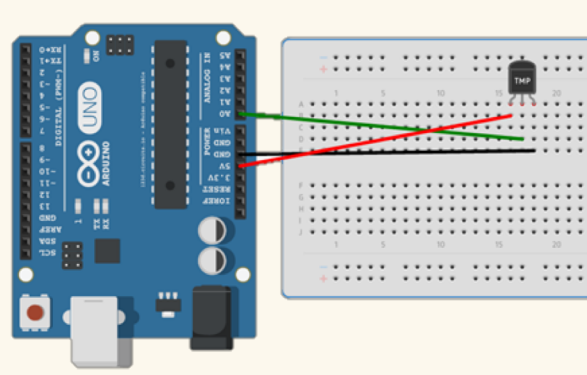
What to use for the heater?



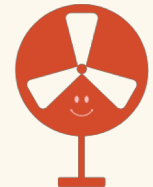
Temperature sensor



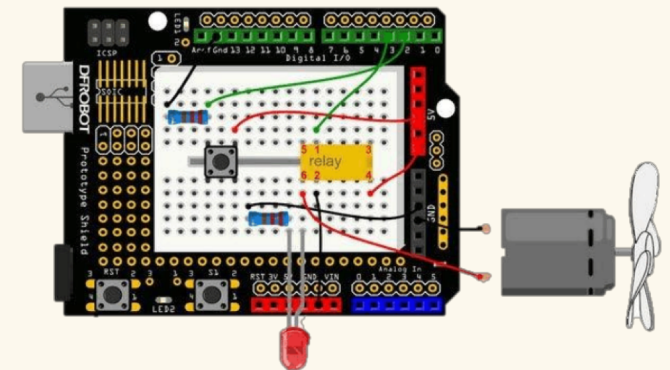
How to convert the reading to temperature?



Motor fan



How to provide enough power for the motor?



Improvements





$O(n_n)o$

Thanks for Listening