


```
/*  
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```

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This program reads the temperature from a LM35 when a serial command is received and sends back the result.

```
*/  
  
int potPin = 5;      // select the input pin for the LM35  
int ledPin = 13;    // select the pin for the LED  
float temperature = 0; // variable to store the value coming from the sensor  
  
void setup()  
{  
  pinMode(ledPin, OUTPUT); // declare the ledPin as an OUTPUT  
  Serial.begin(9600);  
  Serial.println("Ready");  
  digitalWrite(ledPin, HIGH);  
}  
  
void loop()  
{  
  if (Serial.available())  
  {  
    char ch = Serial.read();  
    if (ch == 's')  
    {  
  
      int val = analogRead(potPin); // read the value from the sensor  
      temperature = (5.0 * val * 100.0)/1024.0;  
      Serial.println((long)temperature);  
  
    }  
  }  
}
```