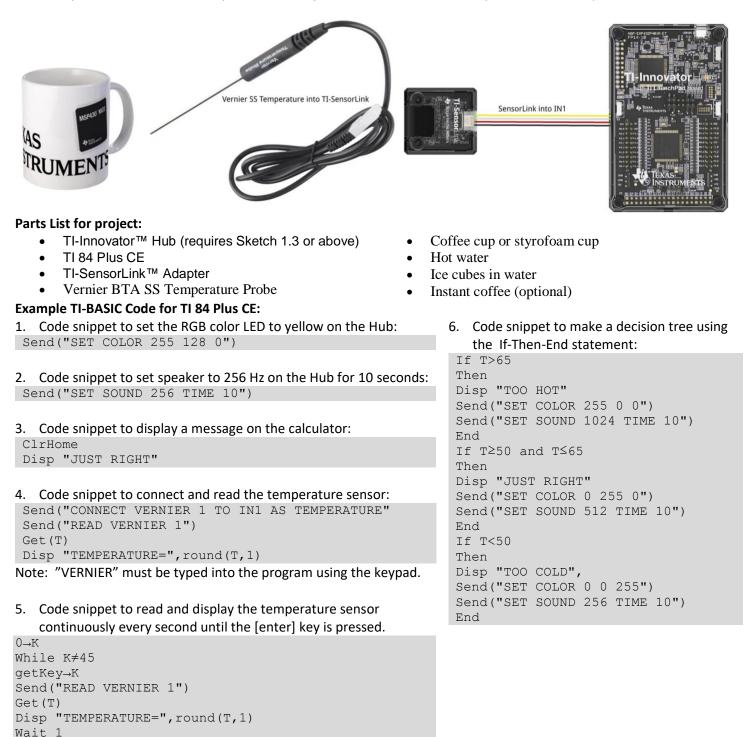
## Some Like it Tepid!

## TI-84 Plus CE with TI-Innovator<sup>™</sup> Hub and TI-SensorLink<sup>™</sup> Adapter

**Project Overview:** In this activity, students are challenged to design a system that informs the user if their coffee is too hot to drink. The system should notify the user of three states: Too hot to drink; too cold to drink; and just right to drink. Students may choose to notify the user with a particular color of the TI-Innovator Hub's onboard LED and/or a particular sound played on the built-in speaker. After designing and building the system, use the hot water and then ice water to test the system. Use the results of your tests to adjust the code to ensure the system works as expected.





End

## 7. Complete Program:

```
Send ("CONNECT VERNIER 1 TO IN1 AS TEMPERATURE
ClrHome
Disp "HOLD [clear] TO QUIT"
Wait 2
0→K
While K≠45
Send("READ VERNIER 1")
Get(T)
ClrHome
Disp "TEMPERATURE=", round(T,1)
If T>65
Then
Disp "TOO HOT"
Send("SET COLOR 255 0 0")
Send("SET SOUND 1024 TIME 10")
End
If T\geq50 and T\leq65
Then
Disp "JUST RIGHT"
Send("SET COLOR 0 255 0")
Send("SET SOUND 512 TIME 10")
End
If T<50
Then
Disp "TOO COLD",
Send("SET COLOR 0 0 255")
Send("SET SOUND 256 TIME 10")
End
getKey→K
Wait 1
End
```

