

Assignment NO: 11

Code:

```
int baselineTemp = 0;
int celsius = 0;
int fahrenheit = 0;
int hfahrenheit = 0;
int lfahrenheit = 0;

void setup()
{
  pinMode(A0, INPUT);
  Serial.begin(9600);
}

void loop()
{
  baselineTemp = 40;

  celsius = map(((analogRead(A1) - 20) * 3.04), 0, 1023, -40, 125);

  fahrenheit = ((celsius * 9) / 5 + 32);
  if(fahrenheit > hfahrenheit)
  {
    hfahrenheit = fahrenheit;
  }
  if(fahrenheit < lfahrenheit)
  {
    lfahrenheit = fahrenheit;
  }
  Serial.print(fahrenheit);
  Serial.println(" F : Current Temperature");
  Serial.println("");
  Serial.print(hfahrenheit);
  Serial.println(" F : The Heighest temprature");
  Serial.print(lfahrenheit);
  Serial.println(" F : The lowest temprature");
  Serial.println("");
  delay(2000);
}
```

Output:

```
77 F : Current Temperature

77 F : The Heighest temprature
0 F : The lowest temprature
```

77 F : Current Temperature

77 F :The Heighest temprature

0 F : The lowest temprature

77 F : Current Temperature

77 F :The Heighest temprature

0 F : The lowest temprature

77 F : Current Temperature

77 F :The Heighest temprature

0 F : The lowest temprature

