Heat Index

From the user, we are given an air temperatures (T) and a relative humidity (rh).

If the air temperature is given in degrees Celsius (°C), we must convert the temperature value to degrees Fahrenheit (°F).

To do this check out the temperature conversion formula at:

Temperature Conversion

Then, we can calculate the heat index with this complex formula:

```
Index_{heat} = -42.379 + (2.04901523 \times T) + (10.14333127 \times rh) 
- (0.22475541 \times T \times rh) - (6.83783 \times 10^{-3} \times T^{2}) 
- (5.481717 \times 10^{-2} \times rh^{2}) + (1.22874 \times 10^{-3} \times T^{2} \times rh) 
+ (8.5282 \times 10^{-4} \times T \times rh^{2}) - (1.99 \times 10^{-6} \times T^{2} \times rh^{2})
```