TEMPERATURE READING USING ARDUINO UNO

```
#define ADC_VREF_mV 5000.0 // in millivolt
#define ADC_RESOLUTION 1024.0
#define PIN_LM35 A0
void setup()
 Serial.begin(9600);
void loop()
 // Get the ADC value from the temperature sensor
 int adcVal = analogRead(PIN_LM35);
 // Convert the ADC value to voltage in millivolts
 float milliVolt = adcVal * (ADC VREF mV / ADC RESOLUTION);
 // Convert the voltage to the temperature in Celsius
 float tempC = milliVolt / 10;
 // Convert the Celsius to Fahrenheit
 float tempF = tempC * 9 / 5 + 32;
 // Print the temperature in the Serial Monitor
 Serial.print("Temperature: ");
 Serial.print(tempC); // Print the temperature in Celsius
 Serial.print("°C ~ "); // Separator between Celsius and Fahrenheit
 Serial.print(tempF); // Print the temperature in Fahrenheit
 Serial.println("°F");
 delay(1000); // Update sensor reading every second
}
```

