## Experiment No: 05

## **Experiment Name:** Temperature Conversion a. Celsius to Kelvin b. Celsius to Fahrenheit c. Fahrenheit to Kelvin

# Code:

* **Celsius to Kelvin**

#include <stdio.h>

int main() {

double c, k;

printf("Celsius: ");

scanf("%lf", &c);

k = c + 273.15;

printf("Kelvin: %lf\n", k);

return 0;

}

* **Celsius to Fahrenheit**

#include <stdio.h>

int main() {

float c, f;

printf("Celsius : ");

scanf("%f", &c);

f = (c \* 9.0 / 5.0) + 32;

printf("Fahrenheit : %f\n", f);

return 0;

}

* **Fahrenheit to Kelvin**

#include <stdio.h>

int main() {

float f, k;

printf("Fahrenheit: ");

scanf("%f", &f);

k = (5.0 / 9) \* (f - 32) + 273.15;

printf("Kelvin: %.2f\n", k);

return 0;

}

# Input:

**a. Celsius to Kelvin**

Celsius: 90

**b. Celsius to Fahrenheit**

Celsius : 90

**c. Fahrenheit to Kelvin**

Fahrenheit: 98.6

# Output:

**a. Celsius to Kelvin**

Kelvin: 363.15

**b. Celsius to Fahrenheit**

Fahrenheit : 194

**c. Fahrenheit to Kelvin**

Kelvin: 310.15