

Experiment-2-2

Q. WAP a C program to convert temperature from Celsius to Fahrenheit using the formula: $F = (C * 9/5) + 32$.

→ #include <stdio.h>

```
int main() {  
    float celsius, fahrenheit;  
    printf("enter temperature in celsius");  
    scanf("%f", &celsius);  
    fahrenheit = (celsius * 9/5) + 32;  
    printf("temperature in fahrenheit is: %.2f/n",  
           fahrenheit);  
}
```

return 0;

}

main.c



Share

Run

Output

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <time.h>
4
5 int main() {
6     int celsius;
7     float fahrenheit;
8
9     // Seed random number generator
10    srand(time(0));
11
12    // Generate random Celsius temperature between -50 and 50
13    celsius = (rand() % 101) - 50;
14
15    // Conversion formula
16    fahrenheit = (celsius * 9.0 / 5.0) + 32;
17
18    // Output results
19    printf("Random Celsius temperature: %d °C\n", celsius);
20    printf("Converted Fahrenheit temperature: %.2f °F\n", fahrenheit);
21
22    return 0;
23 }
24
```

Random Celsius temperature: -11 °C
Converted Fahrenheit temperature: 12.20 °F

=== Code Execution Successful ===