











```
♠ Save ▷ Run
main.c ×
      #include <stdio.h>
      #include <math.h>
  2
  3
      // Function to find the roots of a quadratic equation
  4
      void findRoots(double a, double b, double c) {
  5
          double discriminant, root1, root2;
  6
          // Calculate the discriminant
 8
          discriminant = b * b - 4 * a * c;
 9
 10
 11
          // Check the value of the discriminant
          if (discriminant > 0) {
 12
 13
              // Real and different roots
              root1 = (-b + sqrt(discriminant)) / (2 * a);
 14
              root2 = (-b - sqrt(discriminant)) / (2 * a);
 15
 16
              printf("Roots: x1 = %.2f, x2 = %.2f\n", root1,
              root2);
            else if (discriminant == 0) {
 17
 18
              // Real and equal roots
              root1 = root2 = -b / (2 * a);
 19
 20
              printf("Roots: x1 = x2 = %.2f\n", root1);
 21
          } else {
 22
              // Complex roots
 23
              double realPart = -b / (2 * a);
              double imaginaryPart = sqrt(-discriminant) / (2 *
 24
              a);
 25
              printf("Roots: x1 = %.2f + %.2fi, x2 = %.2f - %.
              2fi\n", realPart, imaginaryPart, realPart,
              imaginaryPart);
 26
 27
 28
 29
      int main() {
          // Coefficients of the quadratic equation
 30
          double a = 1, b = -3, c = 2;
 31
```

## Output

/tmp/a.out Roots: x1 = 2.00, x2 = 1.00

```
♠ Save ▷ Run
main.c ×
      #include <stdio.h>
  2
  3
      // Function to convert Celsius to Fahrenheit
      double celsiusToFahrenheit(double celsius) {
          return (celsius * 9 / 5) + 32;
  5
  6
      // Function to convert Fahrenheit to Celsius
  8
  9
      double fahrenheitToCelsius(double fahrenheit) {
 10
          return (fahrenheit - 32) * 5 / 9;
 12
 13
      int main() {
 14
          double temperatureCelsius, temperatureFahrenheit;
 15
 16
          // Get temperature in Celsius from user
 17
          printf("Enter temperature in Celsius: ");
          scanf("%lf", &temperatureCelsius);
 18
 19
 20
          // Convert Celsius to Fahrenheit
 21
          temperatureFahrenheit = celsiusToFahrenheit
          (temperatureCelsius);
          printf("Temperature in Fahrenheit: %.2f\n",
 22
          temperatureFahrenheit);
 23
 24
          // Get temperature in Fahrenheit from user
          printf("Enter temperature in Fahrenheit: ");
 25
          scanf("%lf", &temperatureFahrenheit);
 26
 27
 28
          // Convert Fahrenheit to Celsius
          temperatureCelsius = fahrenheitToCelsius
 29
          (temperatureFahrenheit);
          printf("Temperature in Celsius: %.2f\n",
 30
          temperatureCelsius);
```

## Output

/tmp/a.out Enter temperature in Celsius: 100 Temperature in Fahrenheit: 212.00 Enter temperature in Fahrenheit: 100 Temperature in Celsius: 37.78

```
(A) Save
                                                         D Run :
main.c ×
      #include <stdio.h>
  2
      // Function to convert Celsius to Fahrenheit
  3
      double celsiusToFahrenheit(double celsius) {
  4
          return (celsius * 9 / 5) + 32;
  5
  6
  7
  8
      // Function to convert Fahrenheit to Celsius
      double fahrenheitToCelsius(double fahrenheit) {
  9
          return (fahrenheit - 32) * 5 / 9;
 10
 11
 12
 13
      int main() {
          double temperatureCelsius, temperatureFahrenheit;
 14
 15
 16
          // Get temperature in Celsius from user
          printf("Enter temperature in Celsius: ");
 17
          scanf("%lf", &temperatureCelsius);
 18
 19
 20
          // Convert Celsius to Fahrenheit
 21
          temperatureFahrenheit = celsiusToFahrenheit
          (temperatureCelsius);
          printf("Temperature in Fahrenheit: %.2f\n",
 22
          temperatureFahrenheit);
 23
 24
          // Get temperature in Fahrenheit from user
          printf("Enter temperature in Fahrenheit: ");
 25
          scanf("%lf", &temperatureFahrenheit);
 26
 27
 28
          // Convert Fahrenheit to Celsius
          temperatureCelsius = fahrenheitToCelsius
 29
          (temperatureFahrenheit);
 30
          printf("Temperature in Celsius: %.2f\n",
          temperatureCelsius);
```

## Output

/tmp/a.out Enter temperature in Celsius: 100 Temperature in Fahrenheit: 212.00 Enter temperature in Fahrenheit: 100 Temperature in Celsius: 37.78