### Q1: Write a Python program to convert kilometers to miles?

#### Q2: Write a Python program to convert Celsius to Fahrenheit?

Converted temperrature is 98.6 Fahrenheit

#### Q3: Write a Python program to display calendar?

## Q4: Write a Python program to solve quadratic equation?

ax2 + bx + c

```
In [4]:
 1 import math
    def equationroots(a, b, c): #Creating a Function
  5
         dis = b * b - 4 * a * c
                                      # calculating discriminant
         sqrt_val = math.sqrt(abs(dis)) # under root of b2-4ac
  6
  7
    # checking condition for discriminant
 9
        if dis > 0:
            print(" The Quadratic Equation has real and different roots. They are ")
 10
 11
            print((-b + sqrt_val)/(2 * a))
 12
            print((-b - sqrt_val)/(2 * a))
 13
        elif dis == 0:
 14
            print(" The Quadratic Equation has real and same root. It is")
 15
 16
            print(-b / (2 * a))
 17
 18
        # when discriminant is less than 0
 19
        else:
 20
             print(" The Quadratic Equation has Complex Roots. They are ")
             print(- b / (2 * a), " + i", sqrt_val)
 21
            print(- b / (2 * a), " - i", sqrt_val)
 22
 23
 25 a = int(input(" Enter a value: "))
 26 b = int(input(" Enter b value: "))
 27 c = int(input(" Enter c value: "))
 28
 29 if a == 0:
 30
       print()
        #print("Quadratic Equation is: ", a,"x^2 +",b,"x +",c )
 31
        print("Input correct quadratic equation : a cannot be Zero")
 33 else:
 34
         print()
 35
         #print("Quadratic Equation is: ", a,"x^2+",b,"x+",c )
 36
         equationroots(a, b, c)
 Enter a value: 1
 Enter b value: -5
 Enter c value: 6
 The Quadratic Equation has real and different roots. They are
```

# Q5 : Write a Python program to swap two variables without temp variable?

2.0

```
In [5]:
 1 | variable1 = 20
 2 variable2 = 40
 4 print("variables Before Swap")
 5 print ("variable1 : " , variable1)
 6 print ("variable2 : " , variable2)
 8 # Swapping Variables
 9 variable1, variable2 = variable2, variable1
10
11 | print()
12 | print("variables After Swap")
 print ("variable1 : " , variable1)
 14 print ("variable2 : " , variable2)
variables Before Swap
variable1 : 20
variable2: 40
variables After Swap
variable1: 40
variable2 : 20
```