- Write a Python program to convert kilometers to miles?

In [1]:
```python
def km_to_miles(km):
    miles = km * 0.621371  # 1 kilometer is approximately 0.621371 miles
    return miles

# Taking user input for kilometers
kilometers = float(input("Enter distance in kilometers: "))

# Converting kilometers to miles using the function
miles = km_to_miles(kilometers)
print(f"{kilometers} kilometers is equal to {miles} miles")

```

```
Enter distance in kilometers: 85
85.0 kilometers is equal to 52.816535 miles
```

- Write a Python program to convert Celsius to Fahrenheit?

In [2]:
```python
def celsius_to_fahrenheit(celsius):
    fahrenheit = (celsius * 9/5) + 32
    return fahrenheit

# Taking user input for temperature in Celsius
celsius_temp = float(input("Enter temperature in Celsius: "))

# Converting Celsius to Fahrenheit using the function
fahrenheit_temp = celsius_to_fahrenheit(celsius_temp)
print(f"{celsius_temp} degrees Celsius is equal to {fahrenheit_temp} degrees Fahr

```

```
Enter temperature in Celsius: 45
45.0 degrees Celsius is equal to 113.0 degrees Fahrenheit
```

- Write a Python program to display calendar

In [4]:

```python
import calendar

# Taking input for year and month
year = int(input("Enter the year: "))
month = int(input("Enter the month (1-12): "))

# Displaying the calendar
cal = calendar.month(year, month)
print(f"Calendar for {calendar.month_name[month]} {year}:\n")
print(cal)

```

```
Enter the year: 2025
Enter the month (1-12): 5
Calendar for May 2025:

      May 2025
Mo Tu We Th Fr Sa Su
          1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 31
```

- Write a Python program to solve quadratic equation?

In [5]:

```python
import cmath

def solve_quadratic(a, b, c):
    # Calculate the discriminant
    discriminant = (b**2) - (4 * a * c)

    # Calculate the solutions
    solution1 = (-b - cmath.sqrt(discriminant)) / (2 * a)
    solution2 = (-b + cmath.sqrt(discriminant)) / (2 * a)

    return solution1, solution2

# Taking user input for coefficients
a = float(input("Enter coefficient a: "))
b = float(input("Enter coefficient b: "))
c = float(input("Enter coefficient c: "))

# Solving the quadratic equation using the function
solution_1, solution_2 = solve_quadratic(a, b, c)

print(f"Solutions for the quadratic equation {a}x^2 + {b}x + {c} = 0 are:")
print(f"Solution 1: {solution_1}")
print(f"Solution 2: {solution_2}")

```

```
Enter coefficient a: 45
Enter coefficient b: 63
Enter coefficient c: 58
Solutions for the quadratic equation 45.0x^2 + 63.0x + 58.0 = 0 are:
Solution 1: (-0.7-0.8938058451861283j)
Solution 2: (-0.7+0.8938058451861283j)
```

- Write a Python program to swap two variables without temp variable?

In [6]:
```python
def swap_variables(a, b):
    a, b = b, a
    return a, b

# Taking user input for two variables
var1 = input("Enter the first variable: ")
var2 = input("Enter the second variable: ")

# Displaying the initial values
print(f"Before swapping: var1 = {var1}, var2 = {var2}")

# Swapping the variables using the function
var1, var2 = swap_variables(var1, var2)

# Displaying the swapped values
print(f"After swapping: var1 = {var1}, var2 = {var2}")

```

```
Enter the first variable: 5
Enter the second variable: 6
Before swapping: var1 = 5, var2 = 6
After swapping: var1 = 6, var2 = 5
```

In [ ]:
```python

```