1. Write a Python program to convert kilometers to miles?

```
In [1]: kms =int(input("Enter distance in kilometers:"))

        miles = 0.621371 * kms

        print("Converted distance is : ", miles, "miles")
```

```
Enter distance in kilometers:10
Converted distance is :  6.21371 miles
```

2. Write a Python program to convert Celsius to Fahrenheit?

```
In [2]: C =int(input("Enter Celsius Temperature:"))

        F = (C*9/5) + 32

        print("The Converted Temperature: ", F ,"Fahrenheit")
```

```
Enter Celsius Temperature:38
The Converted Temperature:  100.4 Fahrenheit
```

3. Write a Python program to display calendar?

```
In [3]: import calendar

        yy = int(input("Enter the year: "))
        mm = int(input("Enter the month: "))

        print(calendar.month(yy,mm))
```

```
Enter the year: 2022
Enter the month: 6
     June 2022
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
```

4. Write a Python program to solve quadratic equation?

In [7]:
```
import math

# function for finding roots
def equationroots( a, b, c):

    # calculating discriminant using formula
    dis = b * b - 4 * a * c
    sqrt_val = math.sqrt(abs(dis))

    # checking condition for discriminant
    if dis > 0:
        print(" real and different roots ")
        print((-b + sqrt_val)/(2 * a))
        print((-b - sqrt_val)/(2 * a))

    elif dis == 0:
        print(" real and same roots")
        print(-b / (2 * a))

    else:
        print("Complex Roots")
        print(- b / (2 * a), " + i", sqrt_val)
        print(- b / (2 * a), " - i", sqrt_val)

a = int(input("Enter a: "))
b = int(input("Enter b: "))
c = int(input("Enter c: "))

if a == 0:
        print("Input correct Quadratic equation")

else:
    equationroots(a, b, c)
```

```
Enter a: 10
Enter b: 5
Enter c: 4
Complex Roots
-0.25  + i 11.61895003862225
-0.25  - i 11.61895003862225
```

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

In [8]:
```
v1 = 10
v2 = 100

print("Variables before swap")
print("Variable1:", v1)
print("Variable2:", v2)

#swapping
v1,v2 = v2,v1

print("Variables after swap")
print("Variable1:", v1)
print("Variable2:", v2)
```

```
Variables before swap
Variable1: 10
Variable2: 100
Variables after swap
Variable1: 100
Variable2: 10
```