Python_basic_programming_2

1. Write a Python program to convert Kilometers to Miles?

```
def kmToMiles():
                       kiloMeters = float(input("Enter no of kilometers : "))
                       print("{} km is Equal to {} miles".format(kiloMeters, kiloMeters*0.621))
                kmToMiles()
               Enter no of kilometers : 50
               50.0 km is Equal to 31.05 miles
              Write a Python program to convert Celsius to Farenheit
                 def celToFarh():
                       celsius = int(input("Enter temperature in celsius : "))
                        Farenheit = (celsius*(9/5))+32
                       print("{}" Celsius is Equal to {}" Farenheit".format(celsius, Farenheit))
                 celToFarh()
               Enter temperature in celsius: 14
               14° Celsius is Equal to 57.2° Farenheit
              3. Write a Python program to display calender?
In [4]:
                import calendar
                 def ShowCalender():
                        year = int(input("Enter calender year: "))
                       print(calendar.calendar(year))
                 ShowCalender()
               Enter calender year: 2023
                                                                               2023
              January
                                                                                                                             March
                                                                         February
              Mo Tu We Th Fr Sa Su Mo Tu We Tu We Th Fr Sa Su Mo Tu We Tu We Th Fr Sa Su Mo Tu We Tu We Tu We Th Fr Sa Su Mo Tu We 
                           April
              October November December

Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su
                         October
                                                                          November
                                                                                                                           December
                1 1 2 3 4 5 6 7 8 6 7 8 9 10 11 12 4 5 6 7 8 9 10 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 25 26 27 28 29 30 31
               16 17 18 19 20 21 22
23 24 25 26 27 28 29
               30 31
              4. Write a Python program to solve quadartic equation
                import cmath
                 import math
                 def quadarticEquationRoots(a,b,c):
                        discriminant = b*b-4*a*c
                        if discriminant == 0:
                                r1 = -b/2*a
                               r2 = -b/2*a
                               print("Roots are Real", r1, r2)
                        elif discriminant > 0:
                                r1 = (-b-math.sqrt(discriminant))/(2 * a)
                                r2 = (-b+math.sqrt(discriminant))/(2 * a)
                               print("Roots are Real and different", r1, r2)
                        else:
                                r1 = (-b-cmath.sqrt(discriminant))/(2 * a)
                                r2 = (-b+cmath.sqrt(discriminant))/(2 * a)
                                print("Roots are Imaginary", r1, r2)
                 a = int(input('Enter a value: '))
                b = int(input('Enter b value: '))
                 c = int(input('Enter c value: '))
                quadarticEquationRoots(a,b,c)
               Enter a value: 23
               Enter b value: 24
               Enter c value: 25
               Roots are Imaginary (-0.5217391304347826-0.9026321518272475j) (-0.5217391304347826+0.9
               026321518272475j)
              5. Write a Python program to swap two variables without temp variable?
                 num 1 = int(input('Enter first number: '))
                num 2 = int(input('Enter second number: '))
                 def swapNumbers(num_1,num_2):
                       print('Before Swapping', num 1, num 2)
                        num 1 = num 1 + num 2
                        num_2 = num_1 - num_2
                        num 1 = num 1-num 2
                        print('before Swapping',num_1,num_2)
                 swapNumbers(num 1, num 2)
               Enter first number: 23
               Enter second number: 21
```

Before Swapping 23 21 before Swapping 21 23