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

enter distance in km 56 distance in miles : 34.79672

temp in fahrenheit: 41.0

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

```
In [8]: 1 celc=float(input('enter temp in celcius '))
2 fah=((celc*9)/5)+32
3 print('temp in fahrenheit : ',fah)
enter temp in celcius 5
```

#### 3. Write a Python program to display calendar?

```
2023
                              February
     January
                                                       March
Mo Tu We Th Fr Sa Su
                        Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su
                            1 2 3 4 5
                                                1 2 3 4 5
                      6 7 8 9 10 11 12 6 7 8 9 10 11 12
13 14 15 16 17 18 19 13 14 15 16 17 18 19
20 21 22 23 24 25 26 20 21 22 23 24 25 26
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
                        27 28
                                                 27 28 29 30 31
30 31
      April
                                May
                                                        June
                        Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su
Mo Tu We Th Fr Sa Su
                       1 2 3 4 5 6 7
                                                          1 2 3 4
3 4 5 6 7 8 9
                        8 9 10 11 12 13 14
                                                 5 6 7 8 9 10 11
10 11 12 13 14 15 16
                        15 16 17 18 19 20 21
                                                 12 13 14 15 16 17 18
                        22 23 24 25 26 27 28
17 18 19 20 21 22 23
                                                 19 20 21 22 23 24 25
24 25 26 27 28 29 30
                        29 30 31
                                                 26 27 28 29 30
       July
                               August
                                                     September
                        Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su
Mo Tu We Th Fr Sa Su
                           1 2 3 4 5 6
                                                             1 2 3
                        7 8 9 10 11 12 13
14 15 16 17 18 19 20
3 4 5 6 7 8 9
                                                4 5 6 7 8 9 10
10 11 12 13 14 15 16
                                                 11 12 13 14 15 16 17
17 18 19 20 21 22 23
                       21 22 23 24 25 26 27
                                                 18 19 20 21 22 23 24
24 25 26 27 28 29 30
                        28 29 30 31
                                                 25 26 27 28 29 30
31
     October 0
                              November
                                                      December
                      Mo Tu We Th Fr Sa Su
Mo Tu We Th Fr Sa Su
                                              Mo Tu We Th Fr Sa Su
                               1 2 3 4 5
                                                             1 2 3
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
                        13 14 15 16 17 18 19
                                                 11 12 13 14 15 16 17
16 17 18 19 20 21 22
                        20 21 22 23 24 25 26
                                                 18 19 20 21 22 23 24
23 24 25 26 27 28 29
                        27 28 29 30
                                                 25 26 27 28 29 30 31
```

## 4. Write a Python program to solve quadratic equation?

```
In [39]:
           1 import math as m
                                      #ax^2+bx+c where a , b and c are coefficient
           2 def sqr_root(a,b,c):
           3
                  disc=(b*b)-(4*a*c)
           4
                  sqr=m.sqrt(abs(disc))
           5
                  if disc>0:
           6
                              print('root is real and different')
           7
                              root1=(-b+sqr)/(2*a)
           8
                              root2=(-b-sqr)/(2*a)
           9
                              return root1,root2
          10
                  elif disc==0:
          11
                              print('root is real and equal')
          12
          13
                              root2=root1=-b/(2*a)
          14
                              return root1,root2
          15
                  else:
                              print(f'root1:\{-b/(2*a)\} + i\{sqr/(2*a)\}  and root2:\{-b/(2*a)\} - i\{sqr/(2*a)\}')
          16
          17 a=float(input('coeff of x^2: '))
          18 b=float(input('coeff of x: '))
          19 c=float(input('constant: '))
          20 if a==0:
          21
                print('invalid equation')
          22 else:
          23
                 print(sqr_root(a,b,c))
          24
          25
```

```
coeff of x^2: 2
coeff of x: 2
constant: 1
root1:-0.5 +i0.5 and root2:-0.5-i0.5
None
```

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

In [ ]: 1