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

k = float(input('input km: '))

m = k \* 0.621371

print(f'miles : {m}')

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

c = float(input('input °C: '))

f = (c \* 1.8) + 32

print(f'°F: {f}')

1. Write a Python program to display calendar?

import calendar

y = int(input('input year : '))

c = calendar.TextCalendar(calendar.SUNDAY)

print(f'calendar of year {y}',c.formatyear(y), sep='\n')

1. Write a Python program to solve quadratic equation?

def qe\_solver(a=int, b=int, c=int):

"""

this function solves a quadratic equation

input : a, b and c

output : x root

"""

if b < 0 and c < 0:

print(f'your quadratic equation : {a}x^2 {b}x {c}')

elif b < 0:

print(f'your quadratic equation : {a}x^2 {b}x +{c}')

elif c < 0:

print(f'your quadratic equation : {a}x^2 +{b}x {c}')

else:

print(f'your quadratic equation : {a}x^2 +{b}x +{c}')

d = (b\*\*2) - (4\*a\*c)

if d > 0:

x1 = (-b + (d\*\*0.5)) / (2\*a)

x2 = (-b - (d\*\*0.5)) / (2\*a)

print(f'roots:\nx = {x1} or x = {x2}')

elif d == 0:

x = -b / (2\*a)

print(f'roots:\nx = {x}')

else:

print("there isn't a real number root")

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

x = 1

y = 2

print(f'before x = {x} and y = {y}')

x, y = y, x

print(f'after x = {x} and y = {y}')