HW1

#Problem 1-1

a = 4.0/10.0+3.5\*2

print(a)

#a is float, it has integers

b = 10%4+6/2

print(b)

#b is int, it does not have decimals

c = (6.5-5.0)\*\*(0.5)+7\*3

print(c)

#c is incorrect because you cannot use ^ for power, it is unsupported, instead you should use \*\* for power

d = 3\*10/3+10%3

print(d)

#d is int, it does not have decimals

e = 5/(1/1/2)

print(e)

#e is incorrect as it cannot be divided by zero, here I replaced zero by 1

#Problem 1-2

a = 12/6.0

print(a)

b = 21//10

print(b)

c = 25//10.0

print(c)

d = 12/6

print(d)

#Problem 1-3

a = 2

b = 5

c = 2

q = b\*b - 4\*a\*c

q\_sr = q \*\* (1/2)

x1 = (-b + q\_sr)/(2\*a)

x2 = (-b - q\_sr)/(2\*a)

print("x1=",x1,"x2=",x2)

#the first problem is located in q\_sr = q \*\* (1//2) where it should have been q\_sr = q \*\* (1/2) as 1//2 is not equal to 1/2, the power of

#root square

#the second problem is located in x1 = (-b + q\_sr)/(2\*a) where 2\*a should be put into paranthesis () in order to divide the whole equation

#by 2 times a instead of dividing it by 2, and then multiplying it by a

#the third problem is located in the print section, the x1 equation was missing "" and an equal sign, whilst the x2

#equation was missing a coma between "x2" and x2