Experiment:1

INTRODUCTION TO PYTHON

(Arithmetic Opeartors in Python)

1. Evaluate the following problems.

   - Calculate $\dfrac{(2.5)^3\left(16-\dfrac{216}{22}\right)}{(1.7)^4+14}+\sqrt[4]{2050}$
   - Define the variable x as $x=2.34$, then evaluate $\dfrac{1}{\sqrt{14+x^2-x}}$
   - Define the variables a, b, c and d as: $a=13,\ b=4.2,\ c=\dfrac{(4b)}{a}$ and $d=\dfrac{abc}{a+b+c}$, then evaluate

$$a.\frac{b}{c+d}+\frac{d}{c}\frac{a}{b}-(a-b^2)(c+d)$$

Solution:

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(a)
x = (pow(2.5,3)*(16-(216/22))/(pow(1.7,4)+14))+pow(2050,1/4)
print(x)
(b)
x=2.34
y=1/pow((14+pow(x,2)-x),1/2)
print(y)
(c)
a=13
b=4.2
c=(4*b)/a
print(c)
d=(a*b*c)/(a+b+c)
print(d)
z=a*(b/(c+d))+((d*a)/(c*b))-(a-pow(b,2))*(c+d)
print(z)
```