[Exercise]: ตัวเลขและตัวดำเนินการทางคณิตศาสตร์

1. จงเขียนโด้ดเพื่อคำนวณ \$ 9^{2 \times 3.1415} + 2^{0.5} + 9/2 \$

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In [3]: (9**(2*3.1415))+(2**0.5)+9/2
```

Out[3]: 989710.7375467579

2. จงเขียนโด้ดเพื่อแสดงผลลัพธ์ของสมการต่อไปนี้

1. \$2^3 + 9 \times 7\$

```
In [4]: (2**3)+9*7
```

Out[4]: **71**

2. $\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5}$

```
In [5]: 1/2+1/3+1/4+1/5
```

Out[5]: 1.28333333333333333

3. $\sqrt{3^2 - 4 \times 1}$

Out[6]: 1.0

4. \$\dfrac{\sqrt{4 \times 3 \times 7}}{2 \times 3} \$

```
In [8]: ((4*3*7)**0.5)/(2*3)
```

Out[8]: 1.5275252316519465

[Exercise]: โมดูล math

1. จงใช้ใลบรารี math เขียนโด้ดหาค่า**อัตราสวนทอง (Golden ratio)** WIKI โดยอัตราส่วนทองมีค่า เท่ากับ รากที่สองของ 5 บวกกับ 1 แล้วหารด้วย 2 ซึ่งจะมีค่าประมาณ 1.618

\$\$ \dfrac{1+\sqrt{5}} {2} \$\$

Out[12]: 1.618033988749895

2. จงใช้ใลบรารี math เขียนโด้ดเพื่อแสดงผลลัพธ์ของสมการต่อไปนี้

```
In [13]: (2**3)+9*7
Out[13]: 71
           2.2) $ ln(\dfrac{1}{2} + \dfrac{1}{3} + \dfrac{1}{4} + \dfrac{1}{5}) $
In [18]: import math
          math.log(1/2+1/3+1/4+1/5)
Out[18]: 0.24946085963158307
          2.3) $\sqrt{3^2 - 4 \times 1 \times 2} $
In [19]: import math
          math.sqrt((3**2)-4*1*2)
Out[19]: 1.0
          2.4) \left(\frac{4 \times 3}{10}\right) 
In [20]:
          import math
          ((math.sqrt(4*3*7))/(2*3))**10
Out[20]: 69.16460905349788
          3. จงหาพื้นผิวของโลกในหน่วยตารางเมตร กำหนดให้รัศมีของโลกมีค่าเป็น 6,371 km
In [21]: import math
          4*math.pi*(6371*1000)**2
Out[21]: 510064471909788.25
          4. ให้เขียนโค้ดกำหนดค่าให้กับตัวแปร $n$ (จะกำหนดค่าเป็นเท่าไหร่ก็ได้) แล้วคำนวณสมการ
          $\left(1+\dfrac{1}{n}\right)^n$ ถามว่า ถ้า $n$ มีค่าเพิ่มมากขึ้นๆ ผลลัพธ์ของสมการจะมีค่าเท่าไหร่
          [Hint] เปลี่ยนค่า n ให้เพิ่มมากขึ้น (ด้วยมือ) แล้วดูว่าผลลัพธ์ของสมการจะลู่เข้าสูค่าอะไร?
          \   \lim_{n\to\infty}(1+\frac{1}{n})^n $$
In [22]: import math
          for n in range(1,1000) :
              x = (1+1/n)**n
              print(x)
          #ลู่เข้า2.718
```

2.1) \$2^3 + 9 \times 7\$

- 2.0
- 2.25
- 2.37037037037037
- 2.44140625
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[Exercise]: สตริง

1. จงเขียนโด้ดแสดงผลลัพธ์ให้เป็นรูปสามเหลี่ยมแบบนี้ (ระหว่าง * ในบรรทัดเดียวกัน ไม่มีช่องว่าง)

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2. จงเขียนโด้ดเพื่อแสดงผลลัพธ์ต่อไปนี้ โดยใช้คำสั่ง print

 $\ \$ "I\ think\ it's\ sad\ if\ it\ isn't,"\ he\ said.\$\$

In [20]: print("\"I think is's sad if it isn't,\"he said")

"I think is's sad if it isn't, "he said