Creado por:

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Librería Math

In [4]:
```
import math
```

math.factorial(número)

In [5]:
```
# 3! = 3*2*1
# 4! = 4*3*2*1
# 5! = 5*4*3*2*1
```

In [6]:
```
math.factorial(3)
```

Out[6]: 6

In [7]:
```
math.factorial(4)
```

Out[7]: 24

In [8]:
```
math.factorial(5)
```

Out[8]: 120

math.sqrt(número) - raíz cuadrada de un número

In [9]:
```
math.sqrt(4)
```

Out[9]: 2.0

In [10]:
```
math.sqrt(9)
```

Out[10]: 3.0

math.pi

In [11]:
```
math.pi
```

Out[11]: 3.141592653589793

trigonometría

In [12]:
```
math.radians(30)
```

Out[12]: 0.5235987755982988

In [15]:
```
math.degrees(math.pi/1) # pi radianes son 180 grados
```

Out[15]: 180.0

In [16]:
```
math.degrees(2* math.pi) # 2 pi radianes son 360 grados (la circunferencia)
```

Out[16]: 360.0

In [17]:
```
math.degrees(1/2 * math.pi) # 90 grados
```

Out[17]: 90.0

In [18]:
```
math.degrees(3/2 * math.pi) # 270 grados
```

Out[18]: 270.0

In [19]:
```
math.sin(1/2 * math.pi) # sen 90 grados = 1
```

Out[19]: 1.0

In [20]:
```
math.pow(3,4) # 3*4 (4 veces)
# 3*3*3*3 = 81
```

Out[20]: 81.0

Librería Statistics

In [21]:
```
import statistics
```

In [22]:
```
listado = [10, 20, 30, 40, 50]
listado
```

Out[22]: [10, 20, 30, 40, 50]

In [23]:
```
statistics.mean(listado) # media
```

Out[23]: 30

In [24]:
```
statistics.median(listado) # mediana
```

Out[24]: 30

In [25]:
```
statistics.mode(listado) # mode
```

Out[25]: 10

In [26]:
```
statistics.stdev(listado) # desviación estándar
```

Out[26]: 15.811388300841896

In [28]:
```
statistics.variance(listado) # varianza
```

Out[28]: 250

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