Time Module

March 5, 2023

1 Import the time Module

```
[1]: import time

[2]: # Unix epoch timestamp
# 1 Jan 1970 00:00:00

# current_date_time -> 5.3.2023 12:44
```

2 time function

```
[3]: time.time()
[3]: 1678035674.0224128

[4]: start_time = time.time()
    print(f'start_time={start_time}')

    f = 1
    for i in range(1, 100_000):
        f *= i

    end_time = time.time()
    print(f'end_time={end_time}')

# print(f)
    print(end_time - start_time, 'secs')
```

start_time=1678035674.059402 end_time=1678035678.2550542 4.19565224647522 secs

3 ctime function

```
[5]: time.ctime()
 [5]: 'Sun Mar 5 22:31:18 2023'
 [6]: time.ctime(0)
                                    0
                                                    return date and time
     # epoc timestamp
                                   secs
 [6]: 'Thu Jan 1 05:30:00 1970'
 [7]: time.time()
 [7]: 1678035678.325032
 [8]: time.ctime(1678001077)
 [8]: 'Sun Mar 5 12:54:37 2023'
 [9]: time.ctime(24*60*60)
                                                  = 2 Jan 1970 5:30:00
                                24 * 60 * 60
     # epoc timestamp
                                   secs
 [9]: 'Fri Jan 2 05:30:00 1970'
     4 sleep function
[10]: for i in range(1, 6):
         print(i)
         time.sleep(1)
     1
     2
     3
     4
     5
[11]: start_time = time.time()
     print(f'start_time={round(start_time, 2)} secs')
     f = 1
     for i in range(1, 100_000):
         f *= i
```

```
end_time = time.time()
      print(f'end_time={round(end_time, 2)} secs')
      # print(f)
      print(round(end_time - start_time, 2), 'secs')
     start_time=1678035683.46 secs
     end_time=1678035687.23 secs
     3.77 secs
[12]: time.ctime(0)
[12]: 'Thu Jan 1 05:30:00 1970'
[13]: time.ctime()
[13]: 'Sun Mar 5 22:31:27 2023'
[14]: time.ctime(time.time())
[14]: 'Sun Mar 5 22:31:27 2023'
[15]: time.ctime(time.time()) - time.ctime(0)
      TypeError
                                                Traceback (most recent call last)
      Input In [15], in <cell line: 1>()
      ---> 1 time.ctime(time.time()) - time.ctime(0)
      TypeError: unsupported operand type(s) for -: 'str' and 'str'
 []:
 []:
 []:
 []:
```