







```
new 54 LTI Mongo Notes MET_NOTES new 58 JSPM_Narhe_Pune_Python_Notes
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3591 DAY14---  
3592 -----MULTI THREADING-----  
3593 MultiThreading in Python  
3594 1. MultiProcessing  
3595 2. Thread  
3596 3. Ways to create thread  
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3616  
3601--> Without Class  
3602--> Extending Thread Class  
3603--> Without Extending Thread Class --> Most Standard Way  
  
--> Without Class  
  
    // Code  
    from threading import *  
  
    def new():  
        for x in range(10):  
            print("Child Executing", current_thread().getName())  
        t1 = Thread(target=new)  
        print(current_thread().getName())
```

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3614     print("Child Executing", current_thread().getName())
3615     t1 = Thread(target=new)
3616     print(current_thread().getName())
3617     t1.start()
3618     t1.join()
3619     print("Bye", current_thread().getName())
3620
3621
3622
3623 --> Extending Thread Class
3624
3625     note -> Override two methods (run(), __init__())
3626
3627     // Code
3628     from threading import *
3629
3630     class UserThreadClass(Thread):
3631         def run(self):
3632             for x in range(10):
3633                 print("Child - ", current_thread().getName())
3634
3635         obj = UserThreadClass()
3636         obj.start()
3637         obj.join()
3638         print("Control returned to", current_thread().getName())
3639
3640
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3639     print("Control returned to", current_thread().getName())
3640
3641
3642 --> Without Extending Thread Class
3643
3644 // Code
3645 from threading import *
3646
3647 class UserThreadClass():
3648     def jobOfThread(self):
3649         for x in range(10):
3650             print("Child - ", x)
3651
3652 obj = UserThreadClass()
3653 t1 = Thread(target=obj.jobOfThread())
3654 t1.start()
3655 t1.join()
3656 print("Done")
3657
3658
3659
3660
3661 TIME COMAPARISON
3662
3663 // Without Thread
3664 from threading import *
```

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```
new 54 LTI Mongo Notes MET_NOTES new 58 JSPM_Narhe_Pune_Python_Notes
3662
3663 // Without Thread
3664 from threading import *
3665 import time
3666
3667 def job():
3668     for x in range(20):
3669         print(x/2)
3670
3671
3672 def otherJob():
3673     for x in range(20):
3674         print(x / 10)
3675
3676
3677 startTime = time.time()
3678
3679 job()
3680 otherJob()
3681 endTime = time.time()
3682
3683 print(endTime - startTime )
3684
3685
3686 // With Thread
3687
3688 from threading import *
```

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```
new 54 x LTI Mongo Notes x MET_NOTES x new 58 x JSPM_Narhe_Pune_Python_Notes x
3686 // With Thread
3687
3688 from threading import *
3689 import time
3690
3691 def job():
3692     for x in range(20):
3693         print(x/2)
3694
3695
3696 def otherJob():
3697     for x in range(20):
3698         print(x / 10)
3699
3700
3701 startTime = time.time()
3702 thread1 = Thread(target=job())
3703 thread2 = Thread(target=otherJob())
3704
3705 thread1.start()
3706 thread2.start()
3707
3708 endTime = time.time()
3709
3710 print(endTime - startTime )
3711
3712
```

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```
new 54 LTI Mongo Notes MET_NOTES new 58 JSPM_Narhe_Pune_Python_Notes
3710 print(endTime - startTime )
3711
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3713
3714
3715 // RACE CONDITION, SYNCHRONIZATION, LOCKS
3716
3717     // Code without SYNCHRONIZATION
3718     import threading
3719     x = 0
3720
3721     def thread_task():
3722         global x
3723         for i in range(100000):
3724             x += 1
3725
3726
3727     def main_task():
3728
3729         t1 = threading.Thread(target=thread_task)
3730         t2 = threading.Thread(target=thread_task)
3731
3732         t1.start()
3733         t2.start()
3734         t1.join()
3735         t2.join()
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use
new 54 x LTI Mongo Notes x MET_NOTES x new 58 x JSPM_Narhe_Pune_Python_Notes x
3734     t1.join()
3735     t2.join()
3736
3737
3738     if __name__ == "__main__":
3739         main_task()
3740         print("{0}".format(x))
3741
3742
3743
3744 // Code with SYNCHRONIZATION
3745
3746
3747     from threading import *
3748
3749     x = 0
3750
3751     def laptop(lock):
3752         global x
3753         lock.acquire()
3754         for i in range(1000000):
3755             x += 1
3756         lock.release()
3757
3758     def main_task():
3759         lock = Lock()
3760         t1 = Thread(target=laptop, args=(lock,))

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ext file
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new 54 LTI Mongo Notes MET_NOTES new 58 JSPM_Narhe_Pune_Python_Notes
3758
3759     def main_task():
3760         lock = Lock()
3761         t1 = Thread(target=laptop, args=(lock,))
3762         t2 = Thread(target=laptop, args=(lock,))
3763
3764         t1.start()
3765         t2.start()
3766
3767         t1.join()
3768         t2.join()
3769
3770     if __name__ == "__main__":
3771         print(x)
3772
3773
3774
3775
3776 -----PYTHON ORACLE CONNECTION-----
3777
3778
3779 prg1 --
3780
3781 import cx_Oracle
3782
3783 # Create a table in Oracle database
3784 con = cx_Oracle.connect('hr/hr@localhost:1521/xe')
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```
3782
3783 # Create a table in Oracle database
3784 con = cx_Oracle.connect('hr/hr@localhost:1521/xe')
3785 # print(con.version)
3786
3787 # Now execute the sqlquery
3788 cursor = con.cursor()
3789
3790 # Creating a table employee
3791 # cursor.execute("create table metNashik(empid integer primary key, name varchar2(30), salary number(10, 2))")
3792 # cursor.execute(" insert into metNashik values(101, 'Aman', 100000)")
3793
3794 con.commit()
3795 # print("Table Created successfully")
3796 # print("Data inserted successfully")
3797
3798 # close the all database operation
3799 con.close()
3800
3801 prg2 --
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3806 import cx_Oracle
3807
3808 # Create a table in Oracle database
3809 con = cx_Oracle.connect('hr/hr@localhost:1521/xe')
3810 # print(con.version)
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3798 # close the all database operation
3799 con.close()
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3802 prg2 --
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3806 import cx_Oracle
3807
3808 # Create a table in Oracle database
3809 con = cx_Oracle.connect('hr/hr@localhost:1521/xe')
3810 # print(con.version)
3811
3812 # Now execute the sqlquery
3813 cursor = con.cursor()
3814
3815 # Creating a table employee
3816 cursor.execute("select * from metNashik")
3817
3818 for i in cursor:
3819     print(i[1])
3820
3821 con.close()
3822 # fetchOne, fetchAll
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