```
In [1]: from threading import Thread
        from time import sleep
        import time
        class MyClass(Thread):
            def __init__(self, tName, tTime, tCounter):
                Thread.__init__(self)
                self.tName = tName
                self.tTime = tTime
                self.tCounter = tCounter
            def run(self):
                print("Strating {}".format(self.tName))
                self.myPrint(self.tTime, self.tTime, self.tCounter)
                print("Ending {}".format(self.tName))
            def myPrint(self, tName, tTime, counter):
                while counter:
                    print("{} : {}".format(tName, time.ctime()))
                    sleep(tTime)
                    counter-=1
        t1 = MyClass("Thread 1", 1, 5)
        t2 = MyClass("Thread 2", 2, 5)
        t1.start()
        t2.start()
        t1.join()
        t2.join()
        print("Ending main thread")
        Strating Thread 1
        1 : Fri Oct 28 13:36:52 2022
        Strating Thread 2
        2 : Fri Oct 28 13:36:52 2022
        1 : Fri Oct 28 13:36:53 2022
        2 : Fri Oct 28 13:36:54 2022
        1 : Fri Oct 28 13:36:54 2022
        1 : Fri Oct 28 13:36:55 2022
        2 : Fri Oct 28 13:36:56 2022
        1 : Fri Oct 28 13:36:56 2022
        Ending Thread 1
        2 : Fri Oct 28 13:36:58 2022
        2 : Fri Oct 28 13:37:00 2022
        Ending Thread 2
        Ending main thread
In [2]: class MyClass():
            def __init__(self, tName, tTime, tCounter):
                self.tName = tName
                self.tTime = tTime
                self.tCounter = tCounter
            def run(self):
                print("Strating {}".format(self.tName))
                self.myPrint(self.tTime, self.tTime, self.tCounter)
                print("Ending {}".format(self.tName))
            def myPrint(self, tName, tTime, counter):
                while counter:
                    print("{} : {}".format(tName, time.ctime()))
                    sleep(tTime)
                    counter-=1
        t1 = MyClass("Thread 1", 1, 5)
        t2 = MyClass("Thread 2", 2, 5)
        t1.run()
        t2.run()
        print("Ending main thread")
        Strating Thread 1
        1 : Fri Oct 28 13:37:02 2022
        1 : Fri Oct 28 13:37:03 2022
        1 : Fri Oct 28 13:37:04 2022
        1 : Fri Oct 28 13:37:05 2022
        1 : Fri Oct 28 13:37:07 2022
        Ending Thread 1
        Strating Thread 2
        2 : Fri Oct 28 13:37:08 2022
        2 : Fri Oct 28 13:37:10 2022
        2 : Fri Oct 28 13:37:12 2022
        2 : Fri Oct 28 13:37:14 2022
        2 : Fri Oct 28 13:37:16 2022
        Ending Thread 2
        Ending main thread
In [3]: # Python program to illustrate the concept of threading, importing the threading module
        import threading
        def print_cube(num):
                function to print cube of given num
                print("Cube: {}\n".format(num * num * num))
        def print_square(num):
                H H H
                function to print square of given num
                print("Square: {}\n".format(num * num))
        if __name__ == "__main__":
                # creating thread
                t1 = threading.Thread(target=print_square, args=(10,))
                t2 = threading.Thread(target=print_cube, args=(10,))
                # starting thread 1
                t1.start()
                # starting thread 2
                t2.start()
                # wait until thread 1 is completely executed
                t1.join()
                # wait until thread 2 is completely executed
                t2.join()
                # both threads completely executed
                print("Done!")
        Square: 100
        Cube: 1000
        Done!
In [4]: # Python program to illustrate the concept of threading
        import threading
        import os
                print("Task 1 assigned to thread: {}".format(threading.current_thread().name))
                print("ID of process running task 1: {}".format(os.getpid()))
        def task2():
                print("Task 2 assigned to thread: {}".format(threading.current_thread().name))
                print("ID of process running task 2: {}".format(os.getpid()))
        if __name__ == "__main__":
                # print ID of current process
                print("ID of process running main program: {}".format(os.getpid()))
                # print name of main thread
                print("Main thread name: {}".format(threading.current_thread().name))
                # creating threads
                t1 = threading.Thread(target=task1, name='t1')
                t2 = threading.Thread(target=task2, name='t2')
                # starting threads
                t1.start()
                t2.start()
                # wait until all threads finish
                t1.join()
                t2.join()
        ID of process running main program: 9104
        Main thread name: MainThread
        Task 1 assigned to thread: t1
        ID of process running task 1: 9104
        Task 2 assigned to thread: t2
```

In [ ]

ID of process running task 2: 9104