```python
In [5]:  import time
         import threading
```

```python
In [9]:  def squares(num):
             print("calculate the sqaure of the number")
             for n in num:
                 time.sleep(0.2)
                 print('sqaure',n*n)
         def cubes(num):
             print("calculate the cube of the number")
             for n in num:
                 time.sleep(0.2)
                 print('cube',n*n*n)
```

```python
In [20]:  a=[1,2,3,4,5,6,7,8]
```

```python
In [8]:  squares(a)
```

```
calculate the sqaure of the number
sqaure 1
sqaure 4
sqaure 9
sqaure 16
sqaure 25
sqaure 36
sqaure 49
sqaure 64
```

```python
In [10]:  cubes(a)
```

```
calculate the cube of the number
cube 1
cube 8
cube 27
cube 64
cube 125
cube 216
cube 343
cube 512
```

```python
In [13]:  b=[5,6,7,8]
```

```python
In [14]:  t=time.time()
          t1=threading.Thread(target=squares,args=(b,))
          t2=threading.Thread(target=cubes,args=(b,))

          t1.start()
          t2.start()

          t1.join()
          t2.join()

          print("done in :",time.time()-t)
          print("hahahha.. i done my work succesfully!!!")
```

```
calculate the sqaure of the number
calculate the cube of the number
cube sqaure 25
125
sqaure 36
cube 216
sqaure 49
cube 343
sqaure 64
cube 512
done in : 0.8691473007202148
hahahha.. i done my work succesfully!!!
```

```python
In [43]:  import time
          import multiprocessing

          squared=[]

          def squares(num):
              global squared
              for n in num:
                  print('sqaure'+ str(n*n))
                  squared.append(n*n)
              print('total squared value' + str(squared))


          if __name__ == "__main__":
              a=[1,2,3,4,5,6,7]
              p1=multiprocessing.Process(target=squares,args=(a,))

              p1.start()

              p1.join()


              print('total squared value'+str(squared))
              print("hahahha.. i done my work succesfully!!!")
```

```
total squared value[]
hahahha.. i done my work succesfully!!!
```

```python
In [44]:  squares(p1)
```

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-44-83490e7f6a42> in <module>
----> 1 squares(p1)

<ipython-input-43-660e254f6527> in squares(num)
      6 def squares(num):
      7     global squared
----> 8     for n in num:
      9         print('sqaure'+ str(n*n))
     10         squared.append(n*n)

TypeError: 'Process' object is not iterable
```

```python
In [ ]:
```

```python
In [ ]:
```