```
1
    -----ConcurrentModificationTest.java-----
   package com.ameya.test;
 2
 3
 4
    import java.util.HashMap;
    import java.util.concurrent.ConcurrentHashMap;
 5
 6
 7
    public class ConcurrentModificationTest extends Thread{
       //static HashMap<Integer, String> h=new HashMap<Integer,
 8
       String>();
 9
       static ConcurrentHashMap<Integer, String> h=new
       ConcurrentHashMap<Integer, String>();
10
       public void run() {
11
           try {
12
              Thread.sleep(1000);
13
              //Child Thread trying to add Object
              //Adding new Element in the object with key 103
14
              h.put(103, "Ameya Joshi");
15
           } catch (InterruptedException e) {
16
17
              System.out.println("Child Thread adds Objects");
           }
18
19
       }
20
21
       public static void main(String[] args) throws InterruptedException{
22
           h.put(100, "Avani Joshi");
23
           h.put(101, "Kshiti Joshi");
24
           h.put(102, "Amol Joshi");
25
           ConcurrentModificationTest t=new ConcurrentModificationTest();
26
27
           t.start();
           for(Object s : h.entrySet()) {
28
29
              Object o=s;
              System.out.println(s);
30
31
              Thread.sleep(1000);
32
           System.out.println(h);
33
       }
34
35
   }
36
37
   /*
38
   ConcurrentHashMap Advantages:
39
```

40 41 42 43 44	Provides very high concurrency in a multithreaded env.  Read operation can be very fast when the write oprn is done with a lock  It may use multitude of locks  Allows other threads to iterate the objects when one thrad is iterating  Is thread-safe, especially in case of multithreading		
45	20 022 02,0, 05	procedury in case of imarritin casing	
46	Parameters		
	HashMap	Concurrer	ntHashMap
47			
48	Synchronization	Complement and	
49	Non-Synchronized	Synchronized	
50	Thread Safety	Non-	Thread
	Safe	Thread safe	
51	•		
52	Iterator	It is	fail-Fast and
	throws	It is fail safe and performs iterations	
53			exception
	during iteration	in multi threaded way	
54			
55	Performance	Cla 41	
	faster	Slower th	ian
56	HashMap */		
	•		