The join() method

The join() method waits for a thread to die. In other words, it causes the currently running threads to stop executing until the thread it joins with completes its task.

Syntax:

|  |
| --- |
| public void join()throws InterruptedException |
| public void join(long milliseconds)throws InterruptedException |

***Example of join() method***

1. **class** TestJoinMethod1 **extends** Thread{
2. **public** **void** run(){
3. **for**(**int** i=1;i<=5;i++){
4. **try**{
5. Thread.sleep(500);
6. }**catch**(Exception e){System.out.println(e);}
7. System.out.println(i);
8. }
9. }
10. **public** **static** **void** main(String args[]){
11. TestJoinMethod1 t1=**new** TestJoinMethod1();
12. TestJoinMethod1 t2=**new** TestJoinMethod1();
13. TestJoinMethod1 t3=**new** TestJoinMethod1();
14. t1.start();
15. **try**{
16. t1.join();
17. }**catch**(Exception e){System.out.println(e);}
19. t2.start();
20. t3.start();
21. }
22. }

[**Test it Now**](http://www.javatpoint.com/opr/test.jsp?filename=TestJoinMethod1)

Output:1

2

3

4

5

1

1

2

2

3

3

4

4

5

5

|  |
| --- |
| As you can see in the above example,when t1 completes its task then t2 and t3 starts executing. |

***Example of join(long miliseconds) method***

1. **class** TestJoinMethod2 **extends** Thread{
2. **public** **void** run(){
3. **for**(**int** i=1;i<=5;i++){
4. **try**{
5. Thread.sleep(500);
6. }**catch**(Exception e){System.out.println(e);}
7. System.out.println(i);
8. }
9. }
10. **public** **static** **void** main(String args[]){
11. TestJoinMethod2 t1=**new** TestJoinMethod2();
12. TestJoinMethod2 t2=**new** TestJoinMethod2();
13. TestJoinMethod2 t3=**new** TestJoinMethod2();
14. t1.start();
15. **try**{
16. t1.join(1500);
17. }**catch**(Exception e){System.out.println(e);}
19. t2.start();
20. t3.start();
21. }
22. }

[**Test it Now**](http://www.javatpoint.com/opr/test.jsp?filename=TestJoinMethod2)

Output:1

2

3

1

4

1

2

5

2

3

3

4

4

5

5

|  |
| --- |
| In the above example,when t1 is completes its task for 1500 miliseconds(3 times) then t2 and t3 starts executing. |

getName(),setName(String) and getId() method:

|  |
| --- |
| public String getName() |
| public void setName(String name) |
| public long getId() |

1. **class** TestJoinMethod3 **extends** Thread{
2. **public** **void** run(){
3. System.out.println("running...");
4. }
5. **public** **static** **void** main(String args[]){
6. TestJoinMethod3 t1=**new** TestJoinMethod3();
7. TestJoinMethod3 t2=**new** TestJoinMethod3();
8. System.out.println("Name of t1:"+t1.getName());
9. System.out.println("Name of t2:"+t2.getName());
10. System.out.println("id of t1:"+t1.getId());
12. t1.start();
13. t2.start();
15. t1.setName("Sonoo Jaiswal");
16. System.out.println("After changing name of t1:"+t1.getName());
17. }
18. }

[**Test it Now**](http://www.javatpoint.com/opr/test.jsp?filename=TestJoinMethod3)

Output:Name of t1:Thread-0

Name of t2:Thread-1

id of t1:8

running...

After changling name of t1:Sonoo Jaiswal

running...

The currentThread() method:

|  |
| --- |
| The currentThread() method returns a reference to the currently executing thread object. |

Syntax:

|  |
| --- |
| public static Thread currentThread() |

***Example of currentThread() method***

1. **class** TestJoinMethod4 **extends** Thread{
2. **public** **void** run(){
3. System.out.println(Thread.currentThread().getName());
4. }
5. }
6. **public** **static** **void** main(String args[]){
7. TestJoinMethod4 t1=**new** TestJoinMethod4();
8. TestJoinMethod4 t2=**new** TestJoinMethod4();
10. t1.start();
11. t2.start();
12. }
13. }

[**Test it Now**](http://www.javatpoint.com/opr/test.jsp?filename=TestJoinMethod4)

Output:Thread-0

Thread-1