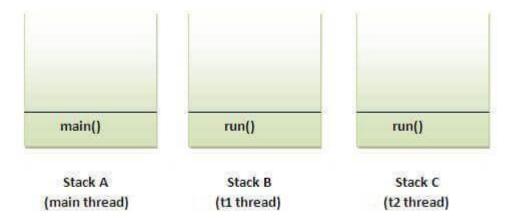
How to perform single task by multiple threads?

If you have to perform single task by many threads, have only one run() method. For example:

```
Program of performing single task by multiple threads
class TestMultitasking1 extends Thread {
public void run() {
      System.out.println("task one");
}
public static void main(String args[]){
       TestMultitasking1 t1=new TestMultitasking1();
      TestMultitasking1 t2=new TestMultitasking1();
      TestMultitasking1 t3=new TestMultitasking1();
      t1.start();
      t2.start();
      t3.start();
}
}
Test it Now
Output:task one
       task one
       task one
Program of performing single task by multiple threads
class TestMultitasking2 implements Runnable {
      public void run() {
             System.out.println("task one");
      }
public static void main(String args[]){
      Thread t1 = new Thread(new TestMultitasking2());//passing annonymous object
of TesMultitasking2 class
      Thread t2 = new Thread(new TestMultitasking2());
      t1.start();
      t2.start();
}
Test it Now
Output:task one
 task one
```

Note: Each thread run in a separate callstack.



How to perform multiple tasks by multiple threads (multitasking in multithreading)?

If you have to perform multiple tasks by multiple threads, have multiple run() methods. For example: **Program of performing two tasks by two threads**

```
class Simple1 extends Thread {
    public void run() {
        System.out.println("task one");
    }
}

class Simple2 extends Thread{
    public void run(){
        System.out.println("task two");
    }
}

class TestMultitasking3 {
    public static void main(String args[]) {
        Simple1 t1=new Simple1();
        Simple2 t2=new Simple2();
}
```

```
t1.start();
   t2.start();
}

Test it Now
Output:task one
   task two
```

Same example as above by annonymous class that extends Thread class:

```
Program of performing two tasks by two threads
```

```
class TestMultitasking4 {
       public static void main(String args[]) {
             Thread t1=new Thread(){
             public void run() {
                     System.out.println("task one");
             }
      };
      Thread t2=new Thread(){
      public void run(){
      System.out.println("task two");
  }
 };
      t1.start();
      t2.start();
}
Test it Now
Output:task one
    task two
```

Same example as above by annonymous class that implements Runnable interface:

Program of performing two tasks by two threads

```
class TestMultitasking5 {
    public static void main(String args[]){
        Runnable r1=new Runnable(){
```

```
public void run(){
                   System.out.println("task one");
             }
      };
       Runnable r2=new Runnable() {
             public void run() {
                   System.out.println("task two");
            }
      };
            Thread t1=new Thread(r1);
             Thread t2=new Thread(r2);
             t1.start();
             t2.start();
      }
}
Test it Now
Output:task one
task two
```