```
class thread implements Runnable {
  @Override
 public void run() {
    try {
       Thread. sleep(1500);
    } catch (InterruptedException e) {
    System.out.println("State of thread 1-" + Test.thread1.getState());
    try {
       Thread.sleep(200);
    } catch (InterruptedException e) {
 }
class Test implements Runnable {
 static Thread thread1;
 static Test obj;
 public static void main(String[] args) throws InterruptedException {
    obj = new Test();
    thread1 = new Thread(obj);
    System.out.println("thread 1 after create-" + thread1.getState());
    thread1.start();
    System.out.println("thread 1 after start" + thread1.getState());
 }
 @Override
 public void run() {
    Thread thread2 = new Thread(new thread());
    System.out.println("state of thread 2" + thread2.getState());
    thread2.start();
```

```
}
import java.util.concurrent.ExecutorService;
import java.util.concurrent.Executors;
class workerThread implements Runnable{
 private String message;
 public workerThread(String s){
    this.message=s;
 }
 @Override
 public void run() {
System.out.println(Thread.currentThread().getName()+"---"+message);
// Thread-0
    processMessage();
    System.out.println(Thread.currentThread().getName());
 }
 private void processMessage() {
    try {
      Thread. sleep(2000);
    } catch (InterruptedException e) {
      e.printStackTrace();
 public static void main(String[] args) {
    ExecutorService executorService=
Executors.newFixedThreadPool(5);
    for (int i = 0; i < 10; i++) {
      Runnable worker= new workerThread("");
      executorService.execute(worker);
```

```
}
    executorService.shutdown();
    while (!executorService.isTerminated()){}
    System.out.println("Finish");
 }
}
class t1 extends Thread{
  @Override
  public void run() {
    for (int i = 0; i < 10; i++) {
      try {
         Thread.sleep(500);
       } catch (InterruptedException e) {
         e.printStackTrace();
       System.out.println("Thread 1");
 }
class t2 extends Thread{
  @Override
  public void run() {
    for (int i = 0; i < 10; i++) {
      try {
         Thread.sleep(500);
       } catch (InterruptedException e) {
         e.printStackTrace();
       System.out.println("Thread 2");
  }
```

```
}
class Demo{
  public static void main(String[] args) {
    // 0.-5-.10
    System.out.println("Main start");
    t1 myThread1=new t1();
    t2 myThread2=new t2();
    myThread1.setPriority(10); // Linux
    System.out.println(myThread1.getPriority());
    System.out.println(myThread2.getPriority());
    myThread1.start();
    myThread2.start();
    System.out.println("Main End");
 }
class t1 extends Thread{
  @Override
  public void run() {
    for (int i = 0; i < 10; i++) {
      try {
         Thread.sleep(500);
      } catch (InterruptedException e) {
         e.printStackTrace();
       }
       System.out.println("Thread 1");
  }
```

```
}
class t2 extends Thread{
 @Override
 public void run() {
    for (int i = 0; i < 10; i++) {
      try {
         Thread.sleep(500);
      } catch (InterruptedException e) {
         e.printStackTrace();
      System.out.println("Thread 2");
 }
}
class Demo{
 public static void main(String[] args) {
    // 0.-5-.10
    System.out.println("Main start");
    t1 myThread1=new t1();
    t2 myThread2=new t2();
    System.out.println(myThread1.getName());
    System.out.println(myThread2.getName());
    myThread1.start();
    myThread2.start();
    System.out.println("Main End");
 }
}
```

```
class t1 extends Thread{
  @Override
  public void run() {
    for (int i = 0; i < 10; i++) {
      try {
         Thread.sleep(500);
       } catch (InterruptedException e) {
         e.printStackTrace();
       System.out.println("Thread 1");
 }
class t2 extends Thread{
  @Override
  public void run() {
    for (int i = 0; i < 10; i++) {
       try {
         Thread.sleep(500);
       } catch (InterruptedException e) {
         e.printStackTrace();
       System.out.println("Thread 2");
}
class Demo{
  public static void main(String[] args) {
    // 0.-5-.10
    System.out.println("Main start");
```

```
t1 myThread1=new t1();
    t2 myThread2=new t2();
    myThread1.setName("55");
    myThread2.setName("56");
    System.out.println(myThread1.getName());
    System.out.println(myThread2.getName());
    myThread1.start();
    myThread2.start();
    System.out.println("Main End");
 }
}
// 10%
class t1 extends Thread {
 @Override
 public void run() {
    for (int i = 0; i < 10; i++) {
      try {
         Thread.sleep(500);
      } catch (InterruptedException e) {
         e.printStackTrace();
      }
      System.out.println("Thread 1");
 }
```

```
class t2 extends Thread {
  @Override
  public void run() {
    for (int i = 0; i < 10; i++) {
       try {
          Thread.sleep(500);
       } catch (InterruptedException e) {
          e.printStackTrace();
       }
       System.out.println("Thread 2");
    }
 }
class Demo {
  public static void main(String[] args) throws InterruptedException {
    System.out.println("Main start");
    t1 \text{ myThread1} = \text{new } t1();
    t2 \text{ myThread2} = \text{new } t2();
    myThread1.start();
    myThread2.start();
    /*ddgdfgdfgfg*/
    myThread1.join();
    myThread2.join();
    System.out.println(Thread.currentThread().isAlive());
    System.out.println(myThread1.isAlive());
    System.out.println("Main End");
 }
}
```

```
class t1 extends Thread {
  @Override
  public void run() {
    for (int i = 0; i < 10; i++) {
      try {
         Thread.sleep(500);
       } catch (InterruptedException e) {
         e.printStackTrace();
       System.out.println("Thread 1");
 }
class t2 extends Thread {
  @Override
  public void run() {
    for (int i = 0; i < 10; i++) {
       try {
         Thread.sleep(500);
       } catch (InterruptedException e) {
         e.printStackTrace();
       System.out.println("Thread 2");
 }
}
class Demo {
  public static void main(String[] args) throws InterruptedException {
    System.out.println("Main start");
```

```
t1 \text{ myThread1} = \text{new } t1();
   t2 \text{ myThread2} = \text{new } t2();
   myThread1.start();// user Thread
   myThread2.start();// user Thread
   myThread1.join();
   myThread2.join();
   myThread1.setDaemon(true);
   System.out.println(myThread1.isDaemon());
   System.out.println(myThread2.isDaemon());
   System.out.println("Main End");
 }
// 10%
What is a Thread
Thread is a lightweight sub process
it is a smallest independent unit of a program
every java program contains at least one thread
To crate a Thread---> Option 2
1---> Extend the Thread Class
2---> Implements Runnable Interface(lamdas)
______
______
Thread Class
                                        Runnable Interface
```

```
*Each Thread creates its unique Object
                                                       *Each Thread
creates its unique Object
*A class extending thread class cant any other class
                                                           *Along with
runnable a class can implements any other interface
* Enable Tight Couple
                                                 * Enables loose
Couple
//==== Java Main Thread
*it is executed whenever a program starts
-----
class LambdaThread{
 public static void main(String[] args) {
    // child thread
    new Thread(()->{
      for (int i = 0; i < 10; i++) {
         System.out.println("Thread Child "+i);
        try {
           Thread.sleep(500);
         } catch (InterruptedException e) {
           e.printStackTrace();
         }
    }).start();
    // main thread
    for (int i = 0; i < 10; i++) {
      System.out.println("Thread Main"+i);
      try {
         Thread.sleep(500);
      } catch (InterruptedException e) {
         e.printStackTrace();
```

```
}
}
}
```