UF 2: Multi-thread programming

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Thread objects

Thread definition

❶Extend the Thread Class

❷Implement the Runnable Interface

Subclass Thread

```java
public class ExThread extends Thread {
String strPrint;
public ExThread(String strP) { strPrint=strP; }
public void run(){
    for(int x=0;x<5;x++){
        System.out.println(strPrint+ " " + x); }
}
public static void main(String[] args) {
    // Thread creation
    Thread first = new ExThread("Thread 1");
    Thread second = new ExThread("Thread 2");
    // Thread execution
    first.start();
    second.start();
    System.out.println("End of main thread");
}
}
```

Provide a Runnable Object

```java
public class ImpRunnable implements Runnable {
String strPrint;
public ImpRunnable(String strP) { strPrint=strP; }
public void run(){
    for(int x=0;x<5;x++){
        System.out.println(strPrint+ " " + x); }
}
public static void main(String[] args) {
    // Runnable objects creation
    ImpRunnable obj1 = new ImpRunnable("Runnable 1");
    ImpRunnable obj2 = new ImpRunnable("Runnable 2");
    Thread first = new Thread(obj1);
    Thread second = new Thread(obj2);
    first.start();
    second.start();
    System.out.println("End of main thread");
}
}
```