

## Practical No. 13

Aim : Create, debug, and run java programs based on Threads by implementing Runnable interface.



Aim: Create, debug and run java programs based on Threads by extending implementing Runnable interface.

Theory:

What is Runnable interface?

- java.lang.Runnable is an interface that is to be treated by a class whose instances are intended to be executed by a thread.
- Runnable interface has only one function in it, which has to be overridden in the class that implements Runnable interface. This function is the ~~run~~ public void run() function.
- Runnable interface is used in conditions where a class has to extend another class, as java doesn't support extending multiple classes, so in such cases Runnable interface is used.

What are the steps to create a Runnable class by implementing Runnable interface?

→ Step 1:

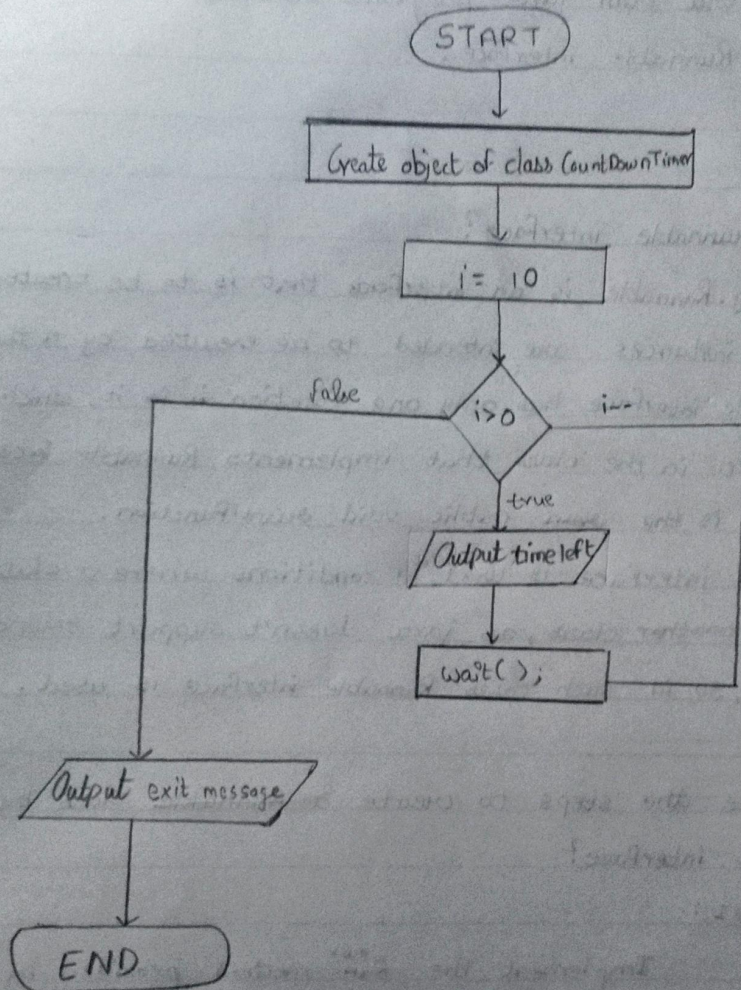
Implement the <sup>run</sup>run method provided by the Runnable interface. This method provides entry point for the thread and you write the code part for the thread goes in it.

Syntax:

```
public void run() {
    ...
}
```



Flowchart:



Conclusion:

Hence, by performing this practical I learnt about the concept of creating threads by using Runnable interface. I also created, developed and executed java programs based on threads by implementing Runnable interface.