**Thread**

**Thread :**

* Thread is a flow execution (or)
* It is a small part of an application
* It is a light weight process
* We will create 1thread for first 500 lines, We will create 2thread for second 500 linesboth threads runs parallelly
* Program which contain multiple threads is called as multithreaded and this process is called multithreading
* Each and every program contains at least one thread by default we are using main thread ( main() )

**Creating threads :**

Generally threads can be created in two ways

1. Class can extends with thread class
2. Class can implementing with runnable interface

**Creating thread by extending with thread class :**

* Create a class
* Our Class which extends with thread class
* For defining thread we have to override run()

Public void run(); // run method belong to thread class

* Using start() we can start the execution of thread

**Example :**

***public******class*** *Demo* ***extends*** *Thread*

*{*

***public******void*** *run()*

*{*

***for****(****int*** *i=1; i<=5; i++)*

*{*

*System.****out****.println("prudhvi");*

*}*

*}*

*}*

***---- main method-----***

***public******class*** *Main*

*{*

***public******static******void*** *main(String[] args)* ***throws*** *InterruptedException*

*{*

*Demo d1 =* ***new*** *Demo();*

*d1.start();*

*Thread.sleep(5000);*

***for****(****int*** *i =1; i<=5; i++)*

*{*

*System.****out****.println("Thread.sleep");*

*}*

*}*

*}*

**Creating a thread by implementing runnable interface :**

*class Mythread implements Runnable*

*{*

*public void run() //@override run() of thread class for defining thread*

*{*

*for(int i=0;i<=5;i++)*

*{*

*System.out.println("MyThread");*

*}*

*}}*

*public class User { //default thread of every program*

*public static void main(String[] args)*

*{*

*Mythread t1=new Mythread();*

*Thread t2=new Thread(t1); //CTE because there is no start() in Mythread class*

*t2.start(); //creates a thread by calling run()*

*for(int i=0; i<=5; i++)*

*{*

*System.out.println("Main Thread");*

*}*

*}*

*}*