**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

**EXAMPLE:**

**package** com.technoelevate.threds;

**public** **class** Thread1 **extends** Thread **implements** Runnable {

@Override

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

System.***out***.println("hi my name is prudhvi");

}

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

Thread1 th = **new** Thread1();

Thread th1 = **new** Thread(**new** Thread1());

th.start();

th1.start();

}

}

**Multi-Threading**

Multi-Threading is a procedure two creating multiple threads to perform work parallelly, by using this process we can achieve high performance and also getting fast responses

**EXAMPLE :**

**package** com.technoelevate.threds;

**public** **class** Mlti\_Thread {

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

Thread th1 = **new** Thread(**new** Thread1());

th1.start();

Thread th2 = **new** Thread(**new** Thread2());

th2.start();

System.***out***.println("hello i am main thread");

}

}

**class** Thread1 **implements** Runnable {

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

System.***out***.println("hello boss i am thread 1");

}

}

**class** Thread2 **implements** Runnable {

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

System.***out***.println("hey i am the thread new thread");

}

}

**Methods in threads**

**package** com.technoelevate.threds;

**public** **class** SleepThread {

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

System.***out***.println("first line");

Thread.*sleep*(2000);

System.***out***.println("2nd line after 2 sec break");

Thread.*sleep*(3000);

System.***out***.println("3nd line after 3 sec break");

}

}