|  |  |  |  |
| --- | --- | --- | --- |
| 1 | Basic | Thread is a class. It is used to create a thread | Runnable is a functional interface which is used to create a thread |
| 2 | Methods | It has multiple methods including start() and run() | It has only abstract method run() |
| 3 |  | Each thread creates a unique object and gets associated with it | Multiple threads share the same objects. |
| 4 | Memory | More memory required | Less memory required |
| 5 | Limitation | Multiple Inheritance is not allowed in java hence after a class extends Thread class, it can not extend any other class | If a class is implementing the runnable interface then your class can extend another class. |

1.difference between implements runnable and extends threads.?

Extends threads Implements Runnable

2.creating class and it extends thread and two threads (school,teacher,student).?

**package** multith;

**public** **class** School {

String name;

**void** List(String name) {

**this**.name=name;

}}

**class** MyThread11 **extends** Thread{

School name;

**public** MyThread11(School name) {

**this**.name=name;

}

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

System.***out***.println("bhavna trainer");

}

}

**class** MyThread22 **extends** Thread{

School name;

**public** MyThread22(School name) {

**this**.name=name;

}

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

System.***out***.println("sai student");

}

}

Test class :

**package** multith;

**public** **class** Test {

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

School sch=**new** School();

MyThread11 m1=**new** MyThread11(sch);

MyThread22 m2=**new** MyThread22(sch);

m1.start();

m2.start();

}

}