

* Explain Thread Create Method.

=> There are two method to create a thread.

1) By extending thread class

2) By implementing Runnable interface.

1 By extending thread class:

Thread class provides a different method to perform different operations.

Syntax :

class class extends Thread
name

Ex.

class F extends Thread

{

 public void run()

{

 System.out.println(" Thread ");

}

```

public static void main
(CString args[])
{
    F obj = new F();
    obj.start();
}

```

2 By implementing Runnable interface.

=> The runnable interface can implement the thread.

Syntax :

```

class class implements
name
Runnable

```

Ex.

```

class F implements Runnable
{
    public void run()
    {
        System.out.println("Thread");
    }
}

```

```
public static void main(String,
    args[])
}
```

```
F obj = new F();
Thread t1 = new Thread(obj);
```

```
t1.start();
```

```
}
```

```
3
```

* Explain different methods of Thread.

=> This are the different methods of Thread.

1 void run(): Used to perform action of a thread.

2 void start(): Starts the execution of a thread.

3 int getPriority(): Returns the Priority of a thread.

4 int setPriority(): Changes the Priority of a thread.

5 int getId(): Returns id of the thread.

6 String getName(): Returns the name of the thread.

7 String setName(): Changes the name of the thread.

8 Thread.State.getState(): Returns the state of the thread.

Ex.

```
import java.lang.*;  
  
class java extends Thread  
{  
    public void run()  
    {  
        System.out.println("Thread ");  
    }  
    public static void main(String,  
                           args[])  
    {  
        System.out.println("Current  
                           thread name " + Thread.  
                           currentThread().getName());  
    }  
}
```

System.out.println("Current
thread Priority " + Thread.currentThread.
getPriority());

Thread t1 = new Thread();

System.out.println("Thread
Priority " + t1.getPriority());

t1.setPriority(2);

System.out.println("Thread
Priority " + t1.getPriority());

}

}

* Explain Synchronization of
Thread.

=> Synchronization of thread is used
to control multithreading.

Using Using Synchronization, we
can access thread one by one
and in serial manner.

There are three method to Perform thread Synchronization.

1) By Using Synchronization Method

2) By Using Synchronization Block

3) By Using static synchronization

Ex.

class Java

 synchronized void printCint n)

 {

 ForCint i=1; i<=5; i++)

 {

 System.out.println(n*i);

 try

 {

 Thread.sleep(400);

 }

 catch(Exception e)

 {

 System.out.println(e);

 }

 }

 }

 }

```
class Thread1 extends Thread
```

```
{ Java J;
```

```
Thread1(Java J);
```

```
this.J = J;
```

```
public void run()
```

```
{ J.print(5);
```

```
}
```

```
class Thread2 extends Thread
```

```
{
```

```
Java J;
```

```
Thread2(Java J);
```

```
this.J = J;
```

```
public void run()
```

```
{
```

```
J.print(10);
```

```
}
```

```
class Java1
```

```
{
```

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

```
{
```

```
Java obj = new Java();
```

```
Thread1 t1 = new Thread1(obj);
```

```
Thread2 t2 = new Thread2(obj);
```

+1. Start C;

+2. Start C;

3

3