Demonstrate Inter process Communication and deadlock.

```
class printer{
       String str;
printer()
               str="";
       synchronized void print(String str)
               System.out.print("["+str);
               try {
                      Thread.sleep(1000);
               }catch(InterruptedException e)
               {
                      System.out.println("Error occured");
               }
               try {
                      System.out.println("]");
                      Thread.sleep(1000);
               } catch (InterruptedException e) {
                      // TODO Auto-generated catch block
e.printStackTrace();
               }
        }
}
class SampleThread implements Runnable
```

```
{
       String msg;
printer pt;
              Thread t;
       public SampleThread(printer pr,String message)
              pt=pr;
msg=message;
              t=new Thread(this);
t.start();
       }
       @Override
       public void run() {
              // TODO Auto-generated method stub
pt.print(msg);
       }
}
public class InterThread {
                            public static
void main(String[] args) {
                                   printer
pt=new printer();
              SampleThread s1=new SampleThread(pt,"HELLO");
              SampleThread s2=new SampleThread(pt,"CSE");
              SampleThread s3=new SampleThread(pt,"WORLD");
              SampleThread s4=new SampleThread(pt,"BMS");
              try {
s1.t.join();
s2.t.join();
```

OUTPUT:

```
[HELLO]
[BMS]
[WORLD]
[CSE]
PS C:\javacode>
```