|         | <u> </u>   |  |  |  |  |
|---------|--|--|--|--|--|
| 13-2-24 | PAGE NO.:  |  |  |  |  |
|         | Deadlock   |  |  |  |  |
|         | class A &  |  |  |  |  |
|         | Synchronized wid foo (B b) {   |  |  |  |  |
|         | String name = Thread. workent Thread(). getName(); System. onl. println (2000 1 " )                        |  |  |  |  |
|         | System out println (nave + "entered A. for");  by &  |  |  |  |  |
|         | M. I.  |  |  |  |  |
|         | Mrcad. sleep (1000);   |  |  |  |  |
|         | cath (Exception e) {   |  |  |  |  |
| -       | System out. printle ("A Interripted")  |  |  |  |  |
|         | Court 1  |  |  |  |  |
|         | Systemond printle (not + " trying to call B last ()");   |  |  |  |  |
|         | 3  |  |  |  |  |
|         | Yoid past(){   |  |  |  |  |
|         | System. out. printle ( * Juside A. last ");  |  |  |  |  |
|         | }  |  |  |  |  |
|         | class B &  |  |  |  |  |
|         | Synchon  |  |  |  |  |
|         | String name = Thread current Phread () get Name ():  System. out. psintle (name + "entered & bay");  try { |  |  |  |  |
|         | System. out. printle (nage + "entered as   |  |  |  |  |
|         |  |  |  |  |  |
|         | thread skep (000)  |  |  |  |  |
|         | ,  |  |  |  |  |
|         | Exterption of  |  |  |  |  |
|         | Systemost printly 100 7  |  |  |  |  |
|         | Systemost printly ("B Intempted").   |  |  |  |  |
|         | System out proble ( nove + " him is a second   |  |  |  |  |
|         | Systemant. pintln (nove + "trying to call A. last()").  a. laste);   |  |  |  |  |
|         | 5  |  |  |  |  |
|         |  |  |  |  |  |
|         | Sec.   |  |  |  |  |

|           | PAGE NO.: (Sa)  | 1     |                    | -              |
|-----------|---|-------|--------------------|----------------|
|           |   | ľ     |                    | (PAGE NO. COM) |
|           |   |       |                    |                |
|           | Void last () E<br>System at privale ( · Invide A last -). |       | Book in other Head |                |
|           | system at pristled some                                   |       |                    |                |
|           |   | Ju-   | a.W                |                |
|           | 3 Jerrets Provest   | 13.01 |                    |                |
|           | class Deadlock implements Provade                         |       |                    |                |
|           | & A a rew AU;   |       |                    |                |
|           | B 6= new B();   |       |                    |                |
|           | 211   |       |                    |                |
|           | I foresto   |       |                    |                |
|           | Thead to new Tyeod ( this, "Rocing Thread").              |       |                    |                |
|           | t. stock()  |       |                    |                |
|           | a foots:<br>extend. println ("Bock in main threed")       |       |                    |                |
|           | experient pointly back in the three si                    |       |                    |                |
|           | 3   |       |                    |                |
| pu        | blic void and }   |       |                    |                |
|           |   |       |                    |                |
|           | System out printle (" Beck in so other threads)           |       |                    |                |
|           |   |       |                    |                |
|           | ablic static vaid main (Sking args [])                    |       |                    |                |
|           |   |       |                    |                |
|           | new Deadlock ():  |       |                    |                |
| 3         |   |       |                    |                |
| 15        |   |       |                    |                |
|           |   |       |                    |                |
| Octor     |   |       |                    |                |
|           |   |       |                    |                |
| MoinTh    | year entered A. for                                       |       |                    |                |
| Roein     | Thread enked B. bor                                       |       |                    |                |
| Marsin    | ead trying totall B (CHI)                                 |       |                    |                |
| Inside    | A. last   |       |                    |                |
| Book.     | A. last main med  |       |                    |                |
| Renzina 7 | and the Andreas Andreas                                   |       |                    |                |
| I : 1     | read trying to call A latte)                              |       |                    |                |
| mode      | 1+, Lag1  |       |                    |                |
|           |   |       |                    |                |

```
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Users\BMSCE\Desktop\1bm22cs195> Javac Deadlock.java
PS C:\Users\BMSCE\Desktop\1bm22cs195> Java Deadlock
MainThread entered A.foo
RacingThread entered B.bar
MainThread trying to call B.last()
Inside A.last
Back in main thread
RacingThread trying to call A.last()
Inside A.last
Back in other thread
PS C:\Users\BMSCE\Desktop\1bm22cs195> ^S
```

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