| 13/02/2024 | Tetimale Consumer |
|------------|---|
| 2. | Java program to demonstrate deadlock. |
| | Pate of D-Jactines Level |
| Ans. | class A & |
| | synchronized void demo (Bb) { |
| | String name = Thread. current Thread (). get Name (); |
| | System. out. println (name + "entered A. demo"); |
| | try ? |
| | Thouad. sleep (1000); |
| | 3 |
| , | catch (Exception e) ? |
| J- | System. out. println ("A interrupted"); |
| v- | 5 119 |
| , | System. out. pointln (name + "trying to call B. last()"); |
| | b. last (); |
| 7 | 5 |
| | void last () { |
| Y | System. out. printly ("Inside A. last"); |
| 7 | 3 |
| | S company that I |
| | sation wouldn't |
| | |

```
class B &
   synchronized void bar (Aa) {
        String name = Thread.currentThread().getName();
System.out.frintln("name + "entered B. bar");
         Thread. sleep (1000);
catch (Exception e) {

System. out. println ("B intercrupted");

}
       System. out. pointln (name + "toying to call A. last()");
    void last () {
        System. out. pointln ("Inside A. last ()");
 class Deadlock implements Runnable &
      Bb = new B();
      Deadlock () {
          Thread . current Thread () . set Name ("Main Thread");
Thread t = new Thread (this, "Racing Thread");
           t. start ();
           a. demo (b); // get a lock on 'a' in this thread
System. out. println ("Back in main thread");
     hublic void run () {
          b. bar (a); //get lock on b in the other thread
System. out. pointln ("Back in other thread");
```

fullic static void main (String args[]) {

new Deadlock();

3. Bench. sleft (1000); Outhut: Racing Thread entered B bar Main Thread entered A domo Inside A last () Back in other thread Inside MainThread entered A. demo Racing Thread entered B. bar

Main Thread trying to call B. last ()

Racing Thread trying to call B. last ()

Inside B. last () Back in main thouad Inside A. last () Back in other thread