SLEEP WAIT:

**package** sleepwait13;

**class** Customer{

**int** amount=10000;

**synchronized** **void** withdraw(**int** amount){

System.***out***.println("going to withdraw...");

**if**(**this**.amount<amount)

{

System.***out***.println("Less balance; waiting for deposit...");

**try**{

wait();

}

**catch**(Exception e){}

}

**this**.amount-=amount;

System.***out***.println("withdraw completed...the lefft over amount is"+ **this**.amount);

}

**synchronized** **void** deposit(**int** amount){

System.***out***.println("going to deposit...");

**this**.amount+=amount;

System.***out***.println("deposit completed... " + **this**.amount);

notify(); //unlocking of thread

}

}

**public** **class** Sleep\_Wait **extends** Thread

{

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

**for**(**int** i=1;i<5;i++){

**try**{

Thread.*sleep*(2000); // 2000 miliseconds = 2 secs

}

**catch**(InterruptedException e)

{

System.***out***.println(e);

}

System.***out***.println(Thread.*currentThread*().getName()+ " :"+ i);

}

}

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

Sleep\_Wait t1=**new** Sleep\_Wait ();

t1.setName("Java");

t1.setPriority(***MAX\_PRIORITY***);

Sleep\_Wait t2=**new** Sleep\_Wait ();

t2.setName("Python");

Sleep\_Wait t3=**new** Sleep\_Wait();

t3.setName("Oracle");

Sleep\_Wait t4=**new** Sleep\_Wait ();

t4.setName("C++");

t1.start();

t2.start();

t3.start();

t4.start();

System.***out***.println(t1.getState());

System.***out***.println(t3.getState());

System.***out***.println(t2.getState());

**final** Customer c=**new** Customer();

**new** Thread(){ // anonymous class

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

{

c.withdraw(5000);

}

}.start();

**new** Thread(){ // anonymous class

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

{

c.withdraw(4000);

}

}.start();

**new** Thread(){ // anonymous class

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

{

c.withdraw(10000);

}

}.start();

**new** Thread(){

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

{

c.deposit(20000);

}

}.start();

}

}