output :-

Characast and Andless and Carlos Sum his been written in the file successfully

count and four a street of the years and a street an independent parameter and therapes exception of

import your atil . Scanner ... pulsic state seed man (Soug ! I wast) i

Lucian Syllowania Standard Commence (1) and them as a second

(26) 63802 851/10 Systems and principe L" Dumba is such;

- Stantped Lister

System and provided (E);

	POORNIMA
6-2	WAP to coreate a file and do the addition of 2 nos. and wirde the ofp on the file after showing the
	public class Main h
	Scanner Scanner = new Scanner (System in): System out print ("Enter the first no. : ");
	double n! = Scanner. next Double (); System. out. print ("Enter the second no.: "); double n2 = Scanner. next Double ();
	File file = new File ("result. +nt");
	File Weiter weiter = new file Writer (file); Writer weite ("The sum of "+ n1 + "and "+ n2+" is: "tsum)
	y catch (TO Exception e) &
	e. print Stack Torace ();
	7

Output:

Forter the first number: 4

Enter the second number: 6

The sum of 4.0 and 6.0 is: 10.0

The state of the s

	Poornii	MA	Marking Street Street ()
	T CORUM		
		Expesiment:	
uls;	What i	in java?	een wait and sleep
		Wait	Steas
1-	Releasi	of Releases the lock on the	Does not release
	Locks	Tobject it is called on,	any locks held by
		allowing other threads	the thread.
2		to acquise the lock.	
3.		MILLI	
	ynchronisat	Must be called within a	lan be called from any
-	entext	Sychronispa block or mithod	context, synchronised or not
3.	Do pose	Used for inter-thousand	Hand to han
1	001000	Communication, to	execution of the
		make a thread wait	current thread for
		until some some	a specific duration
		condition is met	a specific arounds
		condition is real	
1 No	tification	Requises another	The thread Automatical
Me	chanism	throcad to call notify()	wakes up after the
1		ornotify ALLU to wake up	specific diration
1		waiting Hand	specific avoidion
		waiting thread	
C	2	0 1 1111	TI 1 1 1.
Syn	tax	Synchronised lobjit	Thread. sleep (long millis),
0		Synchronised lobj) { obj wait();	millis),
		i	

	POORNIMA
aues:	What are advantages and disadvantages of multithreading in Java?
	multithreading in Java?
Ans:	Advantages of Multithereading in The
1.	Those proved Pextramances
	Concurrency: Better CPU UHlization, especially on multi-
	LOSE POLICESUSS.
	Responsiveness: keeps GUI applications sesponsive by handling long tasks in the back groud.
	handling long taske in the back good.
~ 0	KNEWNIN Classification
•	Efficient Utilization: Threads share memory and other
	Efficient Utilization: Threads share memory and other orsovers, which is more efficient than separate processes. Simplified Modeling:
3.	Simplied Modeling:
•	Natural Structure: Easier to model real world concurrent activities
4.	Asynchronous 1/0:3
•	Non-blocking operations: Enlance performance in 1/0-intensive applications
	Disadvantages of Multithreading in Java Dues head:
1. (ves head:
	Entext Switching: Forguent context switches can reduce performance Resource Consumption: Managing multiple thorads uses more memory and
	Lesource Consumption: Managing multiple threads uses more memory and
- 110	TV.
X 3	calability Limitation:
1/4	entention: High contintion for shored resources can lead to
	ottle necke.
	cusity Ricks:
مل ا	consistent State: Improper Synchonisation can leave
180	source in an inconsistent state. Page No. 22
- 11	

POORNIMA System. out. printly [Thread, wrent Thread (), get Name () Thread sleep (100): date = new Data; 4 catch (Interrupted Exception e) & Theread, current Thread (), Interrupt (); 3 finally h ruhock, writebock (). unlock (); public class Read Write hock Example of public Static void main (String [] args) 4 SharedResource shared Resource = new Shared Resource & Runnable geader Task = () -> & for (int i = 0; ix 4; i++) 4 Shared Resource, nead (); Theread writer = new Thread (writer Task, "Watter"); neaderl. Start (); reader 2. Start (); writer. Start (); try 1 reader 1. join (), reader 2. jain (); muiter, join (Page No.....

POORNIMA Thread, current Thread (), interrupt (); Page No.....



