Page No:__ Jush Mahajan SEITB 04

6) Post Experiment Exercise: Date: A] Entended Theory (1) Explain deadlock situation & how can it be eliminated Gadlock is a situation where o set of processes are blocked because each process is holding a resource & waiting for another resource acquired by some other process.

For eg. In Os when-there are two or more resources that hold some resource & writ for resources held by other. We can prevent deadlock by climinating the a) Eliminate mutual Ecclusion. It is not possible to dis-eatisfy the nutual molesive a) swoid neasted locks: - You must avoid giving locks to multiple threads this is the main reason for deadlock condition. b) divid unricessary locks - The locks should be given to the important threads. I giving locks to unrecessary threads - that cause the deadlock condition. e) bling thread join - Adeadlock woully happens when one thread is writing for the other to linish. In this case, we can use Irread; join with a marrimum thim that a thread will take: Attititude

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Jash Mahajan SE IT B 04 2) Enchlain with diagram Jave Thread madel a thread life cycle model.	Date:
2) Erchlain with diagram four thread model a	nd
thread life cycle model.	
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The Java language & it's runtime system was designed keeping in mind about multi- threading. Java provides synchronous thread environment this helps to increa the cutilization of CPV.	our controlled the think property in a commonwealth and the property and an account of the allicols constructive
was designed keeping in mind about multi-	
threading. Java provides synchronous	COPHICAS CONTROL (FE-TONIS CO. A) CONTROL CONTROL (FE-TONIS CONTRO
thread environment this helps to increa	<u>0</u> Q
the utilization of CPV.	
life cycle of a thread: -	
Stort () V _ plack () done . T/O complete.	
Stort () V plugh () done, I/O complete Remobble (resume (), notify (")
non Runnable	
Kunning	
rin() I glock toon I/O	
Derminated	Colonia Comercia de Profesiones a comercia menor comercia con que con esta a Manda de comercia con con comercia de Colonia de Coloni
Dtel ().	
(i) New: - I new thread begins in agecycles in new state . 2+ remains there will program starts the Urread.	
ajecycles in new state 2+ remains then	l
until program starts the Urread.	enterlijken inderentation in der kind op de gegen de still film de still beken blinge bestiede en de still bestiede en de still beken blinge bestiede en de still
(1) Kurnable :- flor a newly born three	d
in staled the thread lecomo runrable	2
Herrical in this state is considered to	
(ii) Runnable: - Ifter a newly born three in stated the thread become runnable A thread in this state is considered to be encounting tasks.	

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	(ii) Ivailing Blocked: - Sometimes a thread transitions to waiting state while the state thread waits for another thread to perform a taple: (iv) Derimated: - & runable thread enters the torminated state when it completes its large or otherwise terminates:
7	Conclusion:
	La this experiment we have implemented programs related to hultithreading and Thread Synchronization:
And a second sec	Multithroading can be used to increase parallelism to make most of the avoilable CPU recourses & to infrove
andro de prima de la composición	parallelien to make most of the
The state of the s	avoilable CPU repources & to enfrove
The state of the s	application responsiveness gave also prointed thread synchronization to control access to shared resources and maintain agressiting
-	shaped paparagous and mintain consistences
	of dotor.
	d wef servel will citilize multiple
The second secon	Untease to simultaneously process reguests
enative designatives of the control	glata: d wef servel will citilize multiple wreast to simultaneously process requests for data at the same time. Multithreading also leads to minimizers & more effecient we of computing resources.
and the secondary or common and	also leads to minimizer & there
- de constante de	effectent use of computing resources.
The second secon	
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