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	bestfriend
	Assignment 5 bestfriend° Date Page
	Title: Thread synchronization and milled exclusion with Mute
	O with Miller openision with Mule
	Problem Statement: Thread eynchronization and united creciles using muter. Application to demonstrate: Reader - writer problem with reade priority.
	wine witer Andiet is to I
	cook : " Fittation to demonstrate: Reader - writer
	promen with reade priority.
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_	meony: Mullial Exclusion: property of process
	Theory: Muttral Exclusion: property of process can synchronization which status that "no two process can exist in the critical section at any given point of time"
	Exist in the critical section at any given paint of
	time"
	Reader- Writer Problem:
	- One set of date is shared among a number of processes  - One awriter is ready it performs its write. Only one writer may write at a time.
	- Drue a writer in sold it is a member of processes
	with mon - it of performs its write. Only one
	- Il a some write at a time.
	- The stand to writing, no other process can read it
_	antast one reader is reading, no other process can wil
	- If a process is writing, no other process can read it- at least one reader is reading, no other process can will - Reader may not write and only read
	The Market of the Control of the Con
	Turce Variables are used: mutep, wst, readent
	writer Algorithm:
	do{
	11 writer sequeli law with 1
	M writer requesti for critical sections wait (wrt);
	11 performs the writi
	11 performs the write 11 leaves the critical section
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Signal (wrt);	
3 vohile (true);	
Reader Algorithm:	
do { 11 Reader wants l'o enter tre critical séclie	
nouit (mutex);	-
1/ The no. of readers has now increased by	-
readent ++;	1
Il there is at least one reader in the critical section	-
11 this ensures no writer can enter if there is one seconds	-
11 tus ve gine preference to readers here	-
if (read cut ==1)	
wait (wit);	
1) the critical SElvon	
signal (mutes)	
11 i.e. noveader is left-in the critical scilion	
y (read cut:=0)	
signal (wort); 11 writers can entire signal (mulco); 11 readers leave	
2 Idila (tour)	~
3 while (true);	(
Conclusion: - I have successfully implemented	
Reader - Writer problem with reader	
priority. There also synchronized the	
indestood thread synchronization and	
nulual exclusion moing mulie.	-
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