

Best Quiz – 2



Roll NO: 09-SE-06 NAME: Fatima Zohra

OS QUIZ-2

TIME: 25min

Q-1 Define Deadlocks? What are the four conditions that create deadlock?

A set of blocked processes in which a process requests resources which are currently being held by other waiting processes then the processes are said to be in state of deadlock. Four conditions that create deadlock are: 1) Mutual Exclusion 2) Hold and Wait 3) No Preemption 4) Circular Wait

Q-2 Can running each of the following code segments lead to deadlock of process 0 and process 1? Simply answer "yes" or "no".

Code Sample 1		Code Sample 2		Code Sample 3	
Process 0:	Process 1:	Process 0:	Process 1:	Process 0:	Process 1:
lock1.acquire();	lock1.acquire();	lock1.acquire();	lock2.acquire();	lock1.acquire();	lock2.acquire();
lock2.acquire();	lock2.acquire();	lock2.acquire();	lock1.acquire();	lock2.acquire();	lock2.release();
lock1.release();	lock1.release();	lock1.release();	lock1.release();	lock1.release();	lock1.acquire();
lock2.release();	lock2.release();	lock2.release();	lock2.release();	lock2.release();	lock1.release();
No		Yes		No	

Q-3 Explain the following commands

ls > filename.txt

send output of 'ls' command to the file i.e. filename.txt. If file is not created then create it. If file is already present then overwrite it.

date >> filename.txt

Append the output of 'date' command to the end of filename.txt file

chmod 755 script.sh

compile the script file i.e. script.sh. modes are on that is read, write, execute. Make the script file executable.

Q-4 Write commands to compile and run C code Program1.c and CPP code Program2.cpp

C code: `gcc -o task1 Program1.c` Run
 CPP code: `g++ -o task2 Program2.cpp` ./task2

Q-5 Write a shell script to subtract two numbers and tell the user result is negative, positive or equal to zero

```

echo " Enter 1st No. "
read "n1"
echo " Enter 2nd No. "
read "n2"
n3 = $(($n1 - $n2))
if [ $n3 -lt 0 ]
then
echo " Result is negative ]
elif [ $n3 -gt 0 ]
then
echo " Result is positive "
    
```

P.T.O

Average Quiz – 2



Roll NO: 09-SE27 NAME : Samra Siddiqui OS QUIZ-2

TIME: 25min

Q-1 Define Deadlocks? What are the four conditions that create deadlock?

A set of processes each holding a resource and waiting for resource held by another process in the system. CONDITIONS :-
 1- Mutual exclusion 2- Hold and wait 3- No preemption 4- Cycle.

Q-2 Can running each of the following code segments lead to deadlock of process 0 and process 1?

Simply answer "yes" or "no".

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Code Sample 1		Code Sample 2		Code Sample 3	
Process 0:	Process 1:	Process 0:	Process 1:	Process 0:	Process 1:
lock1.acquire();	lock1.acquire();	lock1.acquire();	lock2.acquire();	lock1.acquire();	lock2.acquire();
lock2.acquire();	lock2.acquire();	lock2.acquire();	lock1.acquire();	lock2.acquire();	lock2.release();
lock1.release();	lock1.release();	lock1.release();	lock1.release();	lock1.release();	lock1.acquire();
lock2.release();	lock2.release();	lock2.release();	lock2.release();	lock2.release();	lock1.release();
	Yes X		No		NO

Q-3 Explain the following commands

3.5

ls > filename.txt
 It would create file "filename.txt" and overwrite the contents of ls in this file.

date >> filename.txt
 It would concatenate date at the end of file named "filename.txt".

chmod 755 script.sh
 It would change mode of script and make it executable.

Q-4 Write commands to compile and run C code Program1.c and CPP code Program2.cpp

4
 compile → gcc -o prog1 program2.cpp.
 run → ./prog1.

c code
 → g++ prog1 program1.c
 → ./prog1.

Q-5 Write a shell script to subtract two numbers and tell the user result is negative, positive or equal to zero

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```

if ($#eq0)
echo ("you must give an integer");
else
total=0
for k in *
do
scanf ("%d", n);
total = n - total;
done.
if ($total lt 0)
echo ("Negative");
else if ($total eq 0)
echo ("zero");
else if ($total gt 0)
echo ("Positive");
fi.
fi.
    
```

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Below Average Quiz- 2



Roll NO : 081092SE-56 NAME : Fiqz Hussain

OS QUIZ-2

TIME: 25min

Q-1 Define Deadlocks? What are the four conditions that create deadlock?

when a process using resource and other process waiting is called deadlock
 (1) Mutual Exclusion (2) No Preemption (3) Hold and wait (4)

Q-2 Can running each of the following code segments lead to deadlock of process 0 and process 1?

Simply answer "yes" or "no".

Code Sample 1		Code Sample 2		Code Sample 3	
Process 0:	Process 1:	Process 0:	Process 1:	Process 0:	Process 1:
lock1.acquire();	lock1.acquire();	lock1.acquire();	lock2.acquire();	lock1.acquire();	lock2.acquire();
lock2.acquire();	lock2.acquire();	lock2.acquire();	lock1.acquire();	lock2.acquire();	lock2.release();
lock1.release();	lock1.release();	lock1.release();	lock1.release();	lock1.release();	lock1.acquire();
lock2.release();	lock2.release();	lock2.release();	lock2.release();	lock2.release();	lock1.release();

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Q-3 Explain the following commands

ls > filename.txt

To show the text file with the name 'filename.txt'

3.5

date >> filename.txt

To show the date and detail of the file with name filename.txt

chmod 755 script.sh

Q-4 Write commands to compile and run C code Program1.c and CPP code Program2.cpp

`gcc -o program1 program1.c`

`g++ -o prog2 Program2.cpp`

3

Q-5 Write a shell script to subtract two numbers and tell the user result is negative, positive or equal to zero

`var n1 = $0` # the first argument will be stored in n1

`var n2 = $1` # the second

`var result = n1 - n2`

`if [result -gt 0] then`

`echo "Result is positive"`

`if [result -lt 0] then`

`echo "Result is Negative"`

Lab
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