

CSE 321 Operating Systems
Lab Assignment 2
Total Marks: 20

The following questions are related to Threading [3X2= 6 marks]

Task-1:

Write a c program that creates 5 threads and prints which thread is running and after the thread is closed, a new thread starts its execution. Each thread should run sequentially one by one.

OUTPUT:

thread-1 running
thread-1 closed
thread-2 running
thread-2 closed
...

Task-2:

Write a program in c using 5 threads where each thread will print 5 integers

The outputs will look like this:

Output:

Thread 0 prints 1

Thread 0 prints 2

Thread 0 prints 3

Thread 0 prints 4

Thread 0 prints 5

Thread 1 prints 6

Thread 1 prints 7

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Thread 5 prints 21

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Thread 5 prints 25

Task-3:

Write a program in c that has a function that takes the name of the user and adds all the ASCII value of the characters and returns it. Now create 3 threads that run the function using 3 different user names. Now print “Youreka” if all the returned values are equal, print “Miracle” if the 2 returned values are equal, and print “Hasta la vista” if the values don’t match using another thread.