Parallel Programing basics report

I followed the given instruction in the file “The parallel programming task A2” and got the following results. This program used an application programming interface called open MP so the CPU can decompose tasks and do parallel computation for efficiency. The first picture shows a C program that has been given, I just typed that in my Raspberry PI with a few modification as instructed. As showed in the second picture, I commented line 5 and added “int” in front of “id ”because, if we declare those variable outside the block that will be forked and run in parallel on separate threads, all threads share that variable’s memory and we won’t have a separate threads with a unique id. As the last screenshot shows, four lines printed from four different threads with a unique Id. That confirms to us that there was parallel computation going on and each of those threads have been assigned their own task and they are independent of each other. The reason for having four threads is because our raspberry PI B+ model has four cores, so the OS will schedule separate threads on each of those cores. A screenshot of a social media post

Description automatically generatedA screenshot of a social media post

Description automatically generatedA screenshot of a cell phone

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