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| **1** | Write a program to perform matrix multiplication using multithreading. Each row in the resultant matrix must be computed by one thread. Row number must be passed as argument for each thread. Main thread must wait for all threads to complete and then print out the resultant matrix. |
| **2** | Write a program to compute sum of elements in an array using multithreading. Assume size of array as 100. Threads must compute partial sums by dividing the array into equal size and each partial sum is added to a global variable sum before thread exits. Make use of mutex variable when global variable sum gets updated. Main thread must wait for all threads to complete and print total sum. |

**USP Week 12 Lab Assignments**