**Lab3 – Thread creation and management:**

1. Write a program to create a thread that displays a string and terminates the thread.
2. Write a program to create threads (at least 3) which displays the thread identifier fo the thread being created.Implement such that threads wait for it to finish using pthread\_join() function. Once the threads have finished executing display the number of threads created.
3. Write a program to create a child thread which calculates the square of a number. The thread, receives the number to be squared as argument. Return the result in parent thread and display the output. Use pthread\_join function with status.
4. Write a program to create a struncture and pass the structure elements as arguments to a thread.
5. Write a program to create threads (at least three) which increments a variable counter 'n' number of times. Display the value of variables once the threads have finished executing. Run the program with different values of 'n' and notice the output for any problem
6. Write a program to create a producer thread that creates work and N consumer threads that operate on the work using condition variables. The producer thread creates work, increments a counter and awakes all threads waiting the condition. The consumer thread decrements the counter and wait until the work has been finshed. Display the consumer thread id once it starts working.