**Assignment -8**

**Topic: Multithreading**

1. Write a java program that will create one child thread. The child thread has to display all even numbers between m and n, and the main thread will display all odd numbers between m and n.
2. Create a class called Account having private data member as int accNo, double accBbalance and a synchronized method named as deposit(). Create a multithreaded application, in which more than one thread can concurrently call the deposit() method without any conflict.
3. Write a java program that will compute scalar product of two vectors using multithreading. The vectors are represented as one dimensional array. Assume that the vectors are of size n. Let m is number of threads, which is less than n, and each thread handle n/m number of elements. Use synchronization for concurrent updation of shared variable.
4. WAP in java to implement thread prevention techniques in a multi-threaded environment.

Thread prevention methods are yield(),join(),sleep()

1. WAP in java to set and get thread priority and thread name.
2. WAP to create a Student class and create two Student objects and compare the content and and address of those two objects.

Hint: To compare the content override equals() method of Object class in Student class.