**Assignment-2**

**Object Oriented Programming with Java**

Q.1 Explain the fundamental role of exception in programming, and their type ?

Q. 2 Explain the purpose and functionality of try-catch blocks, finally blocks with example in java ?

Q.3 Explain the differences between "throw", "throws", and custom exceptions in Exception Handling ?

Q. 4 Differentiate between Byte Streams and Character Streams in Java I/O, outlining their respective purposes in reading and writing files. ?

Q.5 Discuss Java Multithreading, Cover the Thread Life Cycle, detailing the states threads go through. ?

Q.6 Explain how to create threads in Java, focusing on the various methods such as extending the Thread class and implementing the Runnable interface.?

Q.7 Discuss thread priorities, synchronizing threads, and inter-thread communication in Java ?

Q.8 Write a Java program that implements a multi-thread application that has

three threads ?