Program imports N\_Triple file into the memory. It reads the N\_Triple file line by line and each line is parsed into three tokens (Subject,

Predicate and object). If a line does not contain three tokens then Program throws ImportException and exits. If a token is equal to "?" keyword then program throws ImportException and exits. Blank lines in the N\_Triple file are ignored. Program also throws FileNotFoundException if N\_Triple file does not exist and throws IOException if there is any error while reading the N\_Triple file.

The Subject, predicate and object tokens act as String identifiers and

There is one object for each unique identifier in the memory. The Triple object keeps reference to objects of subject, predicate and object.

Program gets all eight permutations for each statement in the N\_Triple file and maps it to corresponding triple. A hashmap stores each permutation as key and all the matching triples as value. Key is stored in uppercase so that the query in uppercase is matched against it and as a result the search operation becomes case insensitive.

Program reads query file line by line and throws QueryException if a line does not contain three tokens. Blank lines are ignored. Program also throws FileNotFoundException if query file does not exist and throws IOException if there is any error while reading the query file.

Main() checks whether N\_Triple file name and query file name is specified on command line. If not specified Main prints an error message and exits with exit status 1.

Main() also catches ImportException, QueryException, FileNotFoundException, IOException and in catch block prints the exception message and exits with exit status 1.