

The Basics

A Simple working example of indexing and searching

```
import java.io.IOException;

import org.apache.lucene.analysis.SimpleAnalyzer;
import org.apache.lucene.analysis.standard.StandardAnalyzer;
import org.apache.lucene.document.Document;
import org.apache.lucene.document.Field;
import org.apache.lucene.index.IndexWriter;
import org.apache.lucene.index.Term;
import org.apache.lucene.search.IndexSearcher;
import org.apache.lucene.search.Query;
import org.apache.lucene.search.TermQuery;
import org.apache.lucene.search.TopDocs;
import org.apache.lucene.store.RAMDirectory;

public class LuceneTest {

    public static void main(String[] args) throws IOException {
        RAMDirectory directory = new RAMDirectory();
        IndexWriter writer =
            new IndexWriter(directory, new SimpleAnalyzer(), true, IndexWriter.MaxFieldLength.UNLIMITED);

        Document doc = new Document();
        doc.add(new Field("partnum", "Q36", Field.Store.YES, Field.Index.NOT_ANALYZED));
        doc.add(new Field("description", "Illidium Space Modulator", Field.Store.YES, Field.Index.
ANALYZED));
        writer.addDocument(doc);
        writer.close();

        IndexSearcher searcher = new IndexSearcher(directory);
        Query query = new TermQuery(new Term("partnum", "Q36"));
        TopDocs rs = searcher.search(query, null, 10);
        System.out.println(rs.totalHits);

        Document firstHit = searcher.doc(rs.scoreDocs[0].doc);
        System.out.println(firstHit.getField("partnum").name());
    }
}
```