**Sequence file Input format**

* Sequence file Input formatis a flat file system which consist of key pair and value pairs which will be in binary format.
* It will permits with a efficient transfer of data among various nodes.
* It was the main cause why temporary mapper outputs were always stored in a sequence file format.
* In Hadoop a large number of small files can be processed which will lead to memory over head in name node.
* To store those small files Sequence files were used.
* Sequence files are like flat files which contain key pair and value pair.
* To design an ingestion system a very common case can be used in order to use Sequence files as containers.
* And will store any file related to metadata (filename, path, creation time etc..) as key and file contents will be taken as value.
* Block level compression and record level compression will be provided.

***N line Input Format***

* N line Input Formatwill beused to read the first ‘N’ line from the format used.
* Example- With the help of N LineInputFormat each of the mapper will receive a fixed number of lines as input which will not be like TextInputFormat and KeyValueTextInputFormat.
* By setting the number of lines of input to each of the mapper which can be controlled by setting the property.
* The default value is 1.  
  Alternativelythe value can be set as   
  conf.setInt(NLineInputFormat.LINES\_PER\_MAP, 1000); // sets N value to 1000   
  NLineInputFormat is used for applications which take only a small amount of input data
* Andwill be run upto an extensive (i.e CPU-intensive) computation for it, later will provide the output.

***DB Input Format –***

* DB Input Formatwill get the input for Hadoop from the databases like mysql etc.
* DBInputFormat will emit the Long Writable which will contain the key as a record for number and DBWritables as value.
* SQL query and the input class can be used as one of the two set Input methods.
* It can be set in the Driver class by

For Example:

DBInputFormat.*setInput*(

job,

DBInputWritable.**class**,

"studentsinfo",   //input table name

**null**,

**null**,

**new** String[] { "id", "name" }  // table columns

);

***DB Output Format***

It is used for writing data from Hadoop into Database like my sql

**For Example:**

DBOutputFormat.*setOutput*(

job,

"output",    // output table name

**new** String[] { "name", "count" }   //table columns

);

System.*exit*(job.waitForCompletion(**true**) ? 0 : 1);

}