**Files –** Collection of data that we store permanently in any external device

4 files

1.Text – Can store data in Unorganized manner

2.Excel -

3.Property – Key and value

4.log

In File we have 3 operations:

Read

Write

Modify – 1% chances for testers

Stream are 2 types

Input Stream -> Read (We can get input in Console, file, memories)

Output Stream -> Write

Buffering – Temp memory

\* **File Writter** is the older version to Write the datas

\*It will store in sequence manner

**Log 4j**

There are 3 components

1.**Logger**

- It is a class which is use to initialize the logger

- Each and every classes in java should implements logger using logger class

To initialize logger syntax:

getlogger(Class name) // Factory method (Its points the reference method)

It tells the severity of the logger

Debug(Log info)

Info “

Warn “

Error “

Fatal “

2.Appender – Where you gonna store the logged information

**Console** – Stores the log in console

File

Rolling File

Smtp

Telnet

Jdbc

**3.Layout**

Simple

**Pattern**

Xml

**Html**