# Files in JAVA:

**File is a storage area to store data.**

**There are two types of files in Java:**

**1.Sequential Files**

**2.RandomAccessFiles**

**1.Sequential Files:**

**It will allow the user to retrieve data in Sequential manner.**

**To represent Sequential files, Java has given a predefined class in the form of java.io.File**

**To create File class object we have to use the following constructor.**

**public File(String file\_Name)throws FileNotFoundException**

**EX: File f=new File("c:/abc/xyz/emp.txt");**

**Creating File class object is not sufficient to create a file in directory structure, we have to use the following method.**

**public File createNewFile()**

**To create a Directory, we have to use the following method.**

**public File mkdir()**

**To get file / directory name we have to use the following method.**

**public String getName()**

**To get file / directory parent location,we have to use the following method.**

**public String getParent()**

**To get file / directory absolute path,we have to use the following method.**

**public String getAbsolutePath()**

**To check whether the created thing is File or not,we have to use the following method.**

**public boolean isFile()**

**To check whether the created thing is directory or not ,we have to use the following method.**

**public boolean isDirectory()**

**EX:**

**import java.io.\*;**

**class Test{**

**public static void main(String args[])throws Exception{**

**File f=new File("c:/abc/xyz/emp.txt");**

**f.createNewFile();**

**System.out.println(f.isFile());**

**System.out.println(f.isDirectory());**

**File f1=new File("c:/abc/xyz/student");**

**f1.mkdir();**

**System.out.println(f.isFile());**

**System.out.println(f.isDirectory());**

**System.out.println("File Name :"+f.getName());**

**System.out.println("Parent Name :"+f.getParent());**

**System.out.println("Absolute Path :"f.getAbsolutePath());**

**int size=fis.available();**

**byte[] b=new byte[size];**

**fis.read();**

**String data=new String(b);**

**System.out.println(data);**

**}**

**}**

# RandomAccessFile:

**It is a Storage area, it will allow the user to read data from random positions.**

**To represent this file,java has given a predefined class in the form of "java.io.RandomAccessFile".**

**To create RandomAccessFile class object,we have to use the following constructor.**

**public RandomAccessFile(String file\_name,String access\_Privileges)**

**where access\_Privileges may be "r" [Read] or "rw" [Read and Write]**

**To write data into randomAccessFile,we have to use the following method.**

**public void writeXXX(xxx value)**

**where xxx may be byte,short,int,UTF[String],.....**

**To read data from RandomAccessFile,we have to use the following method**

**public XXX readXXX()**

**where xxx may be byte,short,int,UTF[String],.....**

**To move file pointer to a particular position in RandomAccessFile,we have to use the following method.**

**public void seek(int position)**

**EX:**

**import java.io.\*;**

**class Test{**

**public static void main(String args[])throws Exception{**

**RandomAccessFile raf=new RandomAccessFile("abc.txt","rw");**

**raf.writeInt(111);**

**raf.writeUTF("HIMANSHU");**

**raf.writeFloat(5000.0f);**

**raf.writeUTF("DEL");**

**raf.seek(0);**

**System.out.println("Employee Number :"+raf.readInt()); System.out.println("Employee Name :"+raf.readUTF()); System.out.println("Employee Salary :"+raf.readFloat()); System.out.println("Employee Address :"+raf. readUTF ());**

**}**

**}**