Dt : 2/11/2023

faq:

define setPriority()?

=>setPriority() method is used to set the priority for threads.

syntax:

t1.setPriority(Thread.MIN_PRIORITY+2);

t1.setPriority(Thread.NORM_PRIORITY+2);

faq:

define getPriority()?

=>getPriority() method is used to display thread priorities.

syntax:

int p = t1.getPriority();

---

faq:

define daemon thread?

=>The thread which executes contineously is known as daemon thread.

=>Server service threads are daemon threads

=>we use setDaemon() method to set the thread as daemon thread.

syntax:

t1.setDaemon(true);

---

*imp

IO Streams and Files:

define Stream?

=>The contineous flow of data is known as Stream.

Types of Streams:

=>Streams in Java are categorized into two types:

1.Byte Stream

2.Character Stream

1.Byte Stream:

=>The contineous flow of data in the form of 8-bits is known as Byte
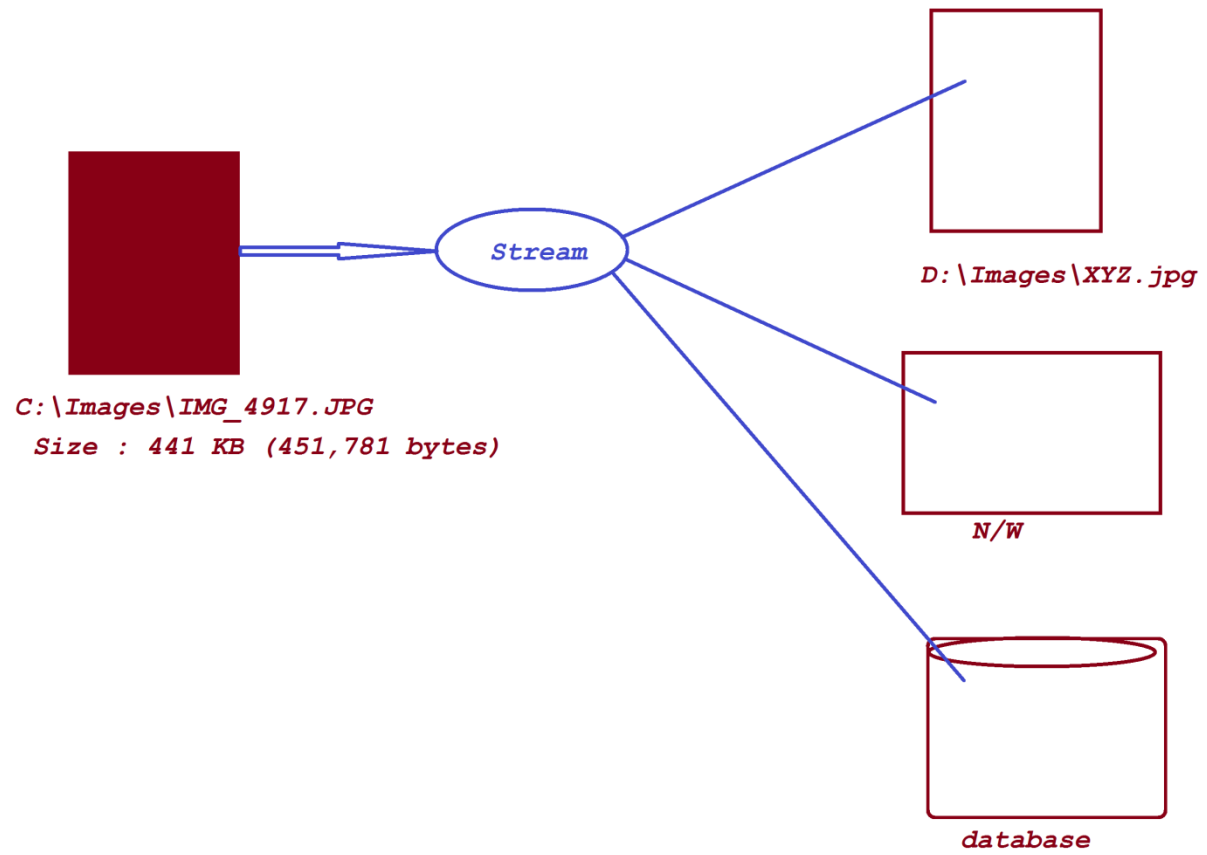
Stream or Binary Stream.

=>Byte Stream support all multi-media data formats,like Text,Audio,Video,

Image and Animation

2.Character Stream:
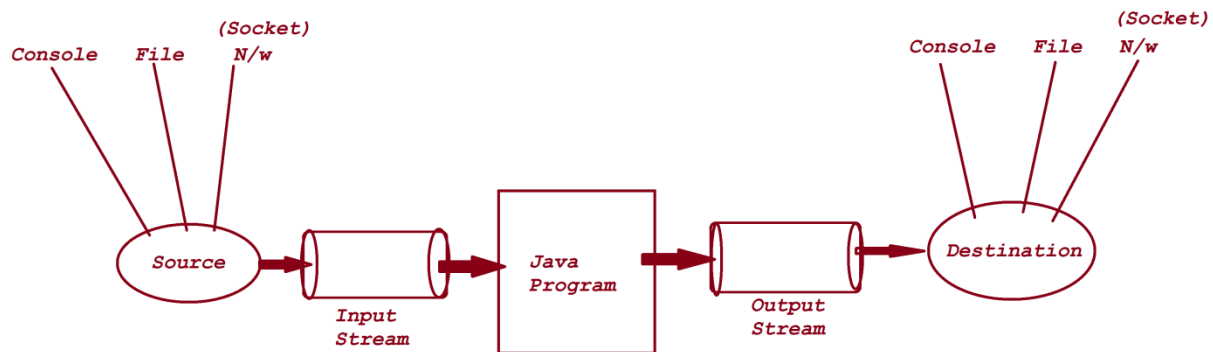
=>The contineous flow of data in the form of 16-bits is known as

Character Stream or Text Stream.

=>Character Stream is preferable for Text data and not Preferable for

Audio,Video,Image,Animation data.

Diagram:

Stream

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N/W

database

Source → Input Stream → Java Program → Output Stream → Destination

(Console, File, (Socket) N/w → Source)
(Destination → Console, File, (Socket) N/w)

----

faq:

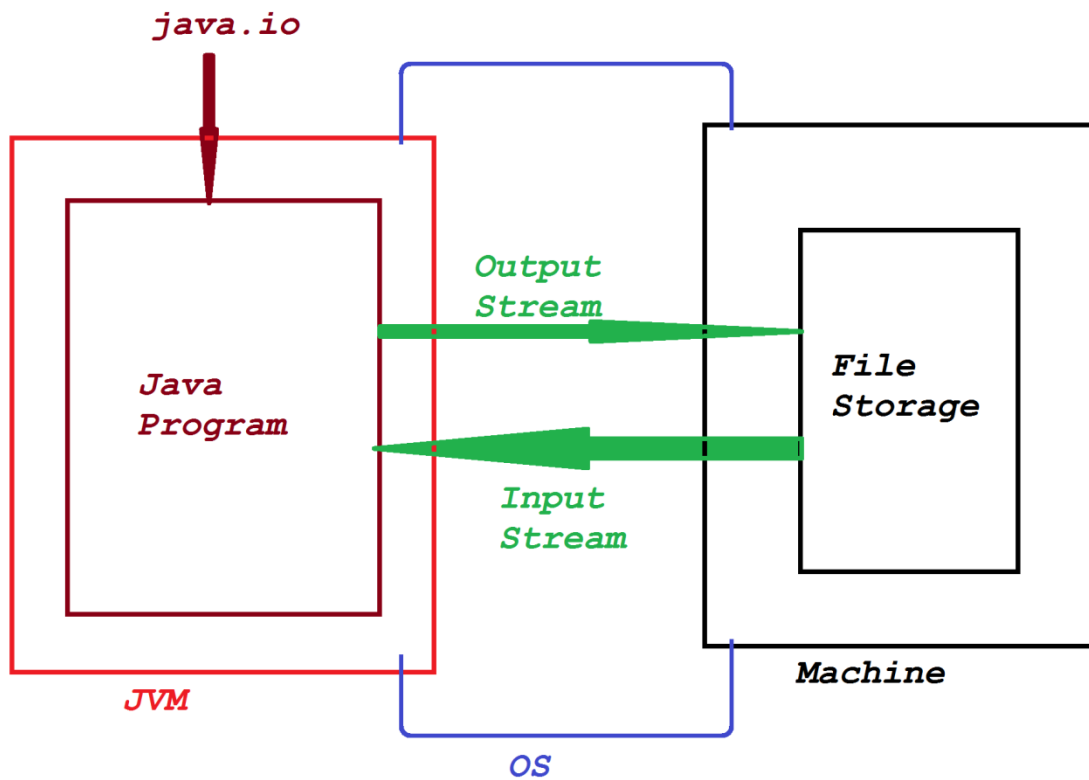*define File Storage?*

  =>The smallest permanent storage of ComputerSystem,which is controlled

  and managed by the OperatingSystem is known as File Storage.

  =>In the process of establishing communication b/w JavaProgram and

  Database product,the JavaProgram must be constructed using 'Classes

  and Interfaces' available from 'java.io' package.

Diagram:

java.io

JVM

Java
Program

Output
Stream

Input
Stream

File
Storage

Machine

OS

----

*imp

=>The following are some important classes related to Byte Stream:

1.DataInputStream

2.DataOutputStream

3.FileInputStream

4.FileOutputStream

1.DataInputStream:

=>DataInputStream is a class from java.io package and which is used to read Byte Stream into JavaProgram.

syntax:

DataInputStream dis = new DataInputStream(Source);

2.DataOutputStream:

=>DataOutputStream is a class from java.io package and which is used to send Byte Stream out of JavaProgram.

syntax:

DataOutputStream dos = new DataOutputStream(Destination);

3.FileInputStream:

=>FileInputStream is a class from java.io package and which is used to find the file and opens the file to read Byte Stream data.

syntax:

FileInputStream fis = new FileInputStream(fPath&fName);

4.FileOutputStream:

=>FileOutputStream is a class from java.io package and which is used to create a new file and opens the file to write Byte Stream data.

syntax:

FileOutputStream fos = new FileOutputStream(fPath&fName);

Ex-program:

wap to copy the file from one location to another location?

Program : DemoFile1.java

```java
package maccess;
import java.util.*;
import java.io.*;
public class DemoFile1
{
    public static void main(String[] args)
    {
        Scanner s = new Scanner(System.in);
        try(s;){
         try {
                System.out.println("Enter
fPath&fName:(Source)");
                File f1 = new File(s.nextLine());
                if(f1.exists()) {
                    FileInputStream fis = new
FileInputStream(f1);
                    System.out.println("Enter
fPath&fName:(Destination)");
                    File f2 = new File(s.nextLine());
                    FileOutputStream fos = new
FileOutputStream(f2);
                    int k;
                    while((k=fis.read())!=-1)
                    {
                        fos.write(k);
                    }//end of loop
                    System.out.println("File Stored
Successfully...");
                    fos.close();
                    fis.close();
                }else {
```

```
                System.out.println("Invalid fPath or
fName..");
            }
        }catch(Exception e) {e.printStackTrace();}
      }//end of try with resource
    }

}
```

o/p:

Enter fPath&fName:(Source)

C:\Images\IMG_4917.JPG

Enter fPath&fName:(Destination)

D:\Images\XYZ.jpg

File Stored Successfully...

===
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