### **GETTING FILE INFORMATION**

#### AIM:

To write a java program to implement file information such as reads a file name from the user, displays information about whether the file exists, whether the file is readable, or writable, the type of file and the length of the file in bytes.

#### **ALGORITHM:**

- 1. Import the java packages.
- 2. By using Scanner class get the input during runtime.
- 3. By using File class method create a File object associated with the file or directory specified by pathname. The pathname can contain path information as well as a file or directory name.
- 4. The exists() checks whether the file denoted by the pathname exists. Returns true if and only if the file denoted by the pathname exists; false otherwise
- 5. The getAbsolutePath() returns the absolute pathname string of the pathname.
- 6. The canRead() checks whether the application can read the file denoted by the pathname. Returns true if and only if the file specified by the pathname exists and can be read by the application; false otherwise.
- 7. The canWrite() checks whether the application can modify to the file denoted by the pathname. Returns true if and only if the file system actually contains a file denoted by the pathname and the application is allowed to write to the file; false otherwise.
- 8. The length() returns the length of the file denoted by the pathname. The return value is unspecified if the pathname denotes a directory.
- 9. The endsWith() returns true if the given string ends with the string given as argument for the method else it returns false.
- 10. The program uses conditional operator to check different functionalities of the given file.

### **PROGRAM:**

//File Name should be **FileInfo.java** 

```
import java.io.*; import
java. util.*; public class
FileInfo
```

```
public static void main(String[] args) throws IOException
    Scanner in=new Scanner(System.in);
    System.out.print("\nEnter the FileName: ");
    String fName = in.next();
    File f = new File(fName);
    String result = f.exists()? " exists.": " does not exist.";
    System.out.println("\nThe given file " +fName + result);
    System.out.println("\nFile Location: "+f.getAbsolutePath());
    if(f.exists())
       result = f.canRead() ? "readable." : "not readable.";
       System.out.println("\nThe file is " + result);
       result = f.canWrite() ? "writable." : "not writable.";
       System.out.println("\nThe file is " + result);
       System.out.println("\nFile length is " + f.length() + " in bytes.");
       if (fName.endsWith(".jpg") || fName.endsWith(".gif") || fName.endsWith(".png"))
          System.out.println("\nThe given file is an image file.");
       else if (fName.endsWith(".pdf"))
          System.out.println("\nThe given file is an portable document format.");
       else if (fName.endsWith(".txt"))
          System.out.println("\nThe given file is a text file.");
else
          System.out.println("The file type is unknown.");
```

```
}
```

# **NOTE:**

To Compile:

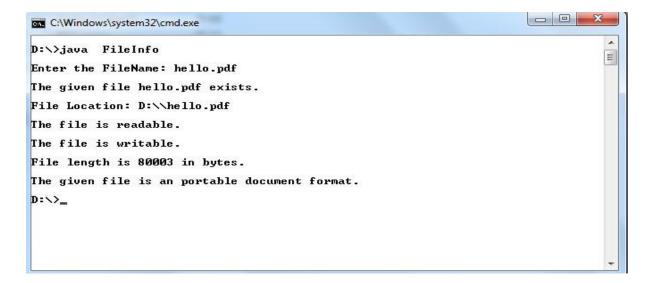
javac FileInfo.java To

Run:

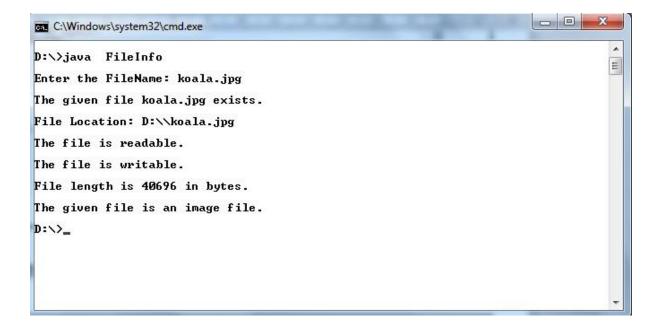
java FileInfo

## **OUTPUT:**

```
- - X
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation.
                                               All rights reserved.
                                                                                          E
C:\Users\Admin>d:
D:\>javac FileInfo.java
D:\>java FileInfo
Enter the FileName: hai.txt
The given file hai.txt exists.
File Location: D: \hai.txt
The file is readable.
The file is writable.
File length is 21 in bytes.
The given file is a text file.
D:\>_
```







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	RESULT:	
	Thus the Implementation for getting file information has been successfully executed.	
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