

# JAVA - FILEREADER CLASS

This class inherits from the `InputStreamReader` class. `FileReader` is used for reading streams of characters.

This class has several constructors to create required objects.

Following syntax creates a new `FileReader`, given the `File` to read from.

```
FileReader(File file)
```

Following syntax creates a new `FileReader`, given the `FileDescriptor` to read from.

```
FileReader(FileDescriptor fd)
```

Following syntax creates a new `FileReader`, given the name of the file to read from.

```
FileReader(String fileName)
```

Once you have `FileReader` object in hand then there is a list of helper methods which can be used to manipulate the files.

SN	Methods with Description
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- |   |   |
|---|---|
| 1 | <b>public int read() throws IOException</b><br>Reads a single character. Returns an <code>int</code> , which represents the character read. |
| 2 | <b>public int read(char [] c, int offset, int len)</b><br>Reads characters into an array. Returns the number of characters read.            |

## Example:

Following is the example to demonstrate class:

```
import java.io.*;

public class FileRead{

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

        File file = new File("Hello1.txt");
        // creates the file
        file.createNewFile();
        // creates a FileWriter Object
        FileWriter writer = new FileWriter(file);
        // Writes the content to the file
        writer.write("This\n is\n an\n example\n");
        writer.flush();
        writer.close();

        //Creates a FileReader Object
        FileReader fr = new FileReader(file);
        char [] a = new char[50];
        fr.read(a); // reads the content to the array
        for(char c : a)
            System.out.print(c); //prints the characters one by one
        fr.close();
    }
}
```

```
}
```

This would produce the following result:

```
This  
is  
an  
example
```