**Difference between bufferedreader and scanner class**

One of the main difference between **BufferedReader** and **Scanner** class is that former class is meant to just read String or text data while **Scanner** class is meant to both read and parse text data into Java primitive types like int, short, float, double, and long.

Another difference is **Scanner** is newer than **BufferedReader**, only introduced in Java 5, while **BufferedReader** is present in Java from JDK 1.1 version. This means, you have access to **BufferedReader** in almost all JDK versions mainly Java 1.4 but Scanner is only available after Java 5.

**Main differences**

* A scanner is a much more powerful utility than BufferedReader. It can parse the user input and read an int, short, byte, float, long and double apart from String. On the other hand, BufferedReader can only read String in Java.
* BuffredReader has a significantly large buffer (8KB) than Scanner (1KB), which means if you are reading long String from a file, you should use BufferedReader but for short input and input other than String, you can use Scanner class.
* BufferedReader is older than Scanner. It's present in Java from JDK 1.1 onward but Scanner is only introduced in JDK 1.5 release.
* Scanner uses regular expression to read and parse text input. It can accept custom delimiter and parse text into primitive data type e.g. int, long, short, float or double using nextInt(), nextLong(), nextShort(), nextFloat(), and nextDouble() methods, while BufferedReader can only read and store String using readLine() method.
* Another major difference between BufferedReader and Scanner class is that BufferedReader is synchronized while Scanner is not. This means, you cannot share Scanner between multiple threads but you can share the BufferedReader object.

**Sample Prog**

**import** java.io.BufferedReader;

**import** java.io.File;

**import** java.io.FileNotFoundException;

**import** java.io.FileReader;

**import** java.io.IOException;

**public** **class** BufferedReaderClass {

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

 String filename = "C:/newfile.txt";

 // reading text file into array

 **try** {

 FileReader textFileReader = **new** FileReader(filename);

 BufferedReader bufReader = **new** BufferedReader(textFileReader);

 **char**[] buffer = **new** **char**[8096];

 **int** numberOfCharsRead = bufReader.read(buffer);

 // read will be from memory

 **while** (numberOfCharsRead != -1) {

 System.***out***.println(String.*valueOf*(buffer, 0, numberOfCharsRead));

 numberOfCharsRead = textFileReader.read(buffer);

 }

 bufReader.close();

 } **catch** (IOException e) {

 // **TODO** Auto-generated catch block

 e.printStackTrace();

 }

 // reading file line by line using BufferedReader

 **try** (BufferedReader br = **new** BufferedReader(**new** FileReader(filename))) {

 String line = br.readLine();

 **while** (line != **null**) {

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

 line = br.readLine();

 }

 } **catch** (IOException e) {

 e.printStackTrace();

 }

 }

}