

Assignment-06

Buffered Reader Class In Java

Submitted by:

Name: Santhosh S

Batch: July-A2

Email: santhoshsanthosh86920@gmail.com

BUFFERED READER CLASS:

The `BufferedReader` class is a part of the Java I/O (Input/Output) package and is used for efficient reading of characters from a stream of text data.

It extends the `Reader` class and provides buffering capabilities, which means it reads data from an underlying `Reader` or `InputStream` in chunks and stores it in an internal buffer.

This buffering mechanism reduces the number of I/O operations and improves reading performance.

It can be used to read data line by line by **`readLine()`** method.

CONSTRUCTERS:

1. `BufferedReader (Reader rd):`

It is used to create a buffered character input stream that uses the default size for an input buffer.

2. `BufferedReader(Reader rd, int size):`

It is used to create a buffered character input stream that uses the specified size for an input buffer.

Example:

In this Example, we are connecting the `BufferedReader` stream with the `InputStreamReader` stream for reading the line by line data From the keyboard.

Import the required packages:

```
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
```

Create a BufferedReader object:

```
BufferedReader br = new BufferedReader(new
InputStreamReader (System.in));
```

InputStreamReader class is a class to convert data from bytes to character

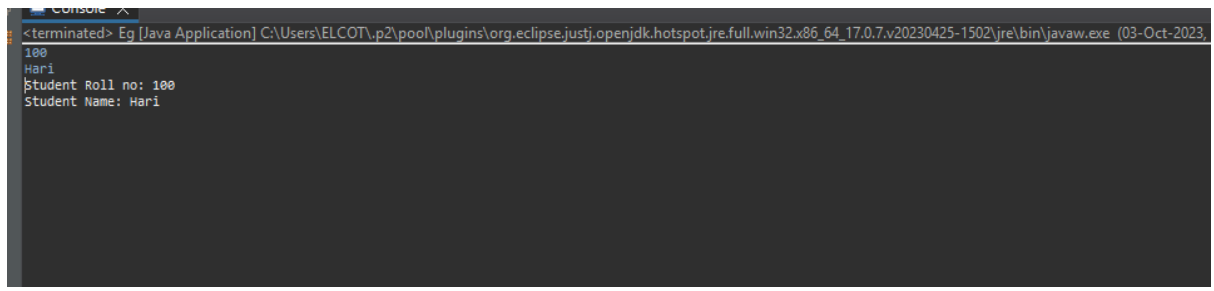
Use the readLine() method to read input:

```
// Enter Student Roll no and read the data using readLine
int n = Integer.parseInt(br.readLine());
// Enter Student Name and read the data using readLine
String name = br.readLine();
// Printing the read line
System.out.println("Student roll no: "+n);
System.out.println("Student Name: "+name);
```

Code:

```
1 package com.kodnest.Arrays.level4;
2
3 import java.io.BufferedReader;
4 import java.io.IOException;
5 import java.io.InputStreamReader;
6
7 public class Eg {
8
9     public static void main(String[] args)
10         throws IOException
11     {
12         // Enter data using BufferedReader
13         BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
14         // Enter student Roll no and read the data using ParseInt Reader
15         int n = Integer.parseInt(br.readLine());
16         // Enter the student name and read the data using readLine
17         String name = br.readLine();
18         // Printing the read line
19         System.out.println("Student Roll no: "+n);
20         System.out.println("Student Name: "+name);
21     }
22 }
23
24
```

Output:

A screenshot of a Java console window titled "Console". The window shows the execution of a Java application. The first line is a system message: "<terminated> Eg [Java Application] C:\Users\ELCOT\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\jre\bin\javaw.exe (03-Oct-2023". The subsequent lines are the program's output: "100", "Hari", "Student Roll no: 100", and "Student Name: Hari".

```
<terminated> Eg [Java Application] C:\Users\ELCOT\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.7.v20230425-1502\jre\bin\javaw.exe (03-Oct-2023
100
Hari
Student Roll no: 100
Student Name: Hari
```