Network Programming Task:4

1-What happen if we change the text "Welcome" to "Welcome To Network Programming"?

The solution

It will print just Welcome and will throw Exception in thread "main" java.util.InputMismatchException

2-What is I/O redirection in java? Give a code example

The solution

It was the form just replaces stdin with a file stream coming from that file

and the code will be as the following

3- Compare between serial access and random-access files in terms of their definition, usage, advantages, disadvantages

Serial Access:

- **1-** Serial files are stored in chronological order, that is as each record is received it is stored in the next available storage position
- 2-Simple to handle. The space on the storage medium can be utilized to the maximum possible extent. Widely used in small scale applications
- 3- We can't go directly to a specific record. It is not possible to add or modify records within an existing file

Random-Access:

- **1-** A random-access data file enables you to read or write information anywhere in the file
- **2-** Immediate access to record is possible, Up-to-date information will always be available on the file, Addition & deletion of record is not very complex
- **3-** Records in a particular file must be of the Same length. Given string field must be of the same length for all records on the file Numeric data is not in human-readable form

4- What is I/O redirection in java? Give a code example?

The solution

Java provides a mechanism, called object serialization where an object can be represented as a sequence of bytes that includes the object's data as well as information about the object's type and the types of data stored in the object. After a serialized object has been written into a file, it can be read from the file and deserialized that is, the type information and bytes that represent the object and its data can be used to recreate the object in memory.

And the code as the following

5-What is JFileChooser in java with code example

The solution

JFileChooser: is a quick and easy way to prompt the user to choose a file or a file saving location.

And the code:

```
package com.mkyong.jfileChooser;
    import java.io.File;
    import javax.swing.JFileChooser;
    import javax.swing.filechooser.FileSystemView;
public class FileChooser1 {
    public static void main(String[] args) {
        JFileChooser JF = new

JFileChooser(FileSystemView.getFileSystemView().getHomeDirectory());
        int returnValue = JF.showOpenDialog(null);
        if (returnValue == JFileChooser.APPROVE_OPTION)
    }
    File file = JF.getSelectedFile();
```

```
System.out.println(file.getAbsolutePath());
    }
}

}
```