

Program 1:

```
//You have been given the list of the names of the files in your directory. You
//have to select Java files from them. A file is a Java file if it's name ends
with
//".java".

import java.io.File;
import java.io.FilenameFilter;
import java.io.IOException;

public class Exp8_1 {
    public static void main(String args[]) throws IOException {
        //Creating a File object for directory
        File directoryPath = new File("D:\\College\\Java\\Experiments\\Exp1");
        FilenameFilter textFilefilter = new FilenameFilter(){
            public boolean accept(File dir, String name) {
                String lowercaseName = name.toLowerCase();
                if (lowercaseName.endsWith(".java")) {
                    return true;
                } else {
                    return false;
                }
            }
        };
        //List of all the text files
        String filesList[] = directoryPath.list(textFilefilter);
        System.out.println("List of the text files in the specified directory:");
        for(String fileName : filesList) {
            System.out.println(fileName);
        }
    }
}
```

Output:

```
D:\College\JAVA\Experiments\Exp8>javac Exp8_1.java

D:\College\JAVA\Experiments\Exp8>java Exp8_1
List of the text files in the specified directory:
Exp1_1.java
Exp1_2.java
Q1.java
Q2.java

D:\College\JAVA\Experiments\Exp8>
```

Questions:

Question 1:

//Write a Java program to read a File using FileReader.

```
import java.io.FileReader;

class Read {
    public static void main(String[] args) {

        char[] array = new char[150];
        try {
            // Creates a reader using the FileReader
            FileReader input = new FileReader("Hello.txt");

            // Reads characters
            input.read(array);
            System.out.println("Data in the file:");
            System.out.println(array);
            // Closes the reader
            input.close();
        }
        catch(Exception e) {
            e.printStackTrace();
        }
    }
}
```

Output:

```
D:\College\JAVA\Experiments\Exp8>javac Read.java

D:\College\JAVA\Experiments\Exp8>java Read
Data in the file:
Hello,
This is a sample text file for experiment 8 of Java Labs
This file was created by Yash Mahajan of SE IT B.

D:\College\JAVA\Experiments\Exp8>|
```

Question 2:

```
//Write a Java program to write a File using FileWriter.

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

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

        String data;
        InputStreamReader ir=new InputStreamReader(System.in);
        BufferedReader br=new BufferedReader(ir);
        data=br.readLine();
        try {
            // Creates a Writer using FileWriter
            FileWriter output = new FileWriter("filewrite.txt");

            // Writes string to the file
            output.write(data);
            System.out.println("Data is written to the file.");

            // Closes the writer
            output.close();
        }
    }
}
```


```
}  
    catch (Exception e) {  
        e.printStackTrace();  
    }  
}  
}
```


Output:

```
D:\College\JAVA\Experiments\Exp8>javac Write.java
```

```
D:\College\JAVA\Experiments\Exp8>java Write  
Hello world from Java Language and Yash.  
Data is written to the file.
```

```
D:\College\JAVA\Experiments\Exp8>
```

 filewrite.txt X

 filewrite.txt

```
1    Hello world from Java Language and Yash.
```