Faculty :May
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Class Timing: ST 11:20 PM – 12:50 PM (LIB-602)
Topic:Java File

Objective

1. Create File, Write in a File, Read from a file

DemoFile.java

```
public class DemoFile {

    public static void main(String[] args) {

        String dir = "src/data";
        String fileName = "info";
        String ext = ".txt";
        String filePath = dir.concat("/").concat(fileName).concat(ext);


        File fileObj = new File(filePath);
        //File fileObj = new File("src/data/info.txt");

        // Create a File
        try {
            if(fileObj.createNewFile())
                System.out.println("File created : " + fileObj.getName());
            else
                System.out.println("File already exist");
        } catch (IOException e) {
            System.out.println("An error occurred.");
            e.printStackTrace();
        }

        // Write in a File
        try {
              FileWriter myWriter = new FileWriter(filePath);   // open
file in write mode
              //FileWriter myWriter = new FileWriter(filePath,true); //
open file in append mode
              System.out.println("Enter your full name :");
              Scanner sc = new Scanner(System.in);
              String name = sc.nextLine();
```

```
              myWriter.write(name);
              myWriter.close();
              System.out.println("Successfully wrote to the file.");
            } catch (IOException e) {
              System.out.println("An error occurred.");
              e.printStackTrace();
            }
          // write in a file using PrintWriter
//         try {
//              PrintWriter output = new PrintWriter(filePath);
//              System.out.println("Enter your full name :");
//              Scanner sc = new Scanner(System.in);
//              String name = sc.nextLine();
//              output.println(name);
//              output.close();
//              System.out.println("Successfully wrote to the file.");
//
//           }
//           catch(Exception e) {
//             e.getStackTrace();
//           }



          // Read from File
           try {

              Scanner fileReader = new Scanner(fileObj);
              while (fileReader.hasNextLine()) {
                String data = fileReader.nextLine();
                System.out.println(data);
              }
              fileReader.close();
            } catch (FileNotFoundException e) {
              System.out.println("An error occurred.");
              e.printStackTrace();
            }


//       // Creates a FileReader
//        //Raed file using BufferedReader
//        FileReader file;
//       try {
//           file = new FileReader(fileObj);
//           BufferedReader br = new BufferedReader(file);
//            String input;
//               try {
//                   while((input = br.readLine()) != null) {
//                       System.out.print(input);
//                   }
//               } catch (IOException e) {
//                   // TODO Auto-generated catch block
//                   e.printStackTrace();
//               }
```

```
//
//      } catch (FileNotFoundException e) {
//          // TODO Auto-generated catch block
//          e.printStackTrace();
//      }
//


          // Remove/delete File
          if (fileObj.delete()) {
               System.out.println("Deleted the file: " + fileObj.getName());
             } else {
               System.out.println("Failed to delete the file.");
             }
          // Remove/delete Dir
          File directory = new File(dir);
          if (directory.delete()) {
               System.out.println("Deleted the folder: " +
directory.getName());
             } else {
               System.out.println("Failed to delete the folder.");
             }
    }

}
```

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Topic:Java File

Tasks:

1. Write a program that takes integers from user and writes them into a file until user inputs a negative number. The program should then read the file and print sum and average of the numbers.

2. Create a Quiz class with id and mark. Now write a program that reads a file containing records of Quiz objects and initialize an array. The program should then print all the objects in the Quiz array and print the id of the student who obtained the highest mark.

```
Sample File:
113098 20
115089 15
345678 12
234566 18
Program Output:
ID:113098 mark:20
ID:115089 mark:15
ID:345678 mark:12
ID:234566 mark:18
Highest mark obtained by ID:113098
```