Session - 1

1. **Create a class name Demo, create a file.**

   Code:

```java
import java.io.File;
import java.io.IOException;

public class Demo {
    public static void main(String[] args) throws IOException {
      File f = new File("Sweety.text");
      f.createNewFile();
      System.out.println("File is created");
      }
  }
```

   Output:

```
File is created
```

2. **create a class and add file and folder into the project.**

   Code:

```java
import java.io.File;
import java.io.IOException;

public class Demo {
    public static void main(String[] args) throws IOException {
       File f = new File("Sweety.text");
       File fl = new File("Jain");

       f.createNewFile();
       System.out.println("File is created");
       fl.mkdir();
       System.out.println("Folder is created");
      }
  }
```

   Output:

```
 File is created
Folder is created
```

3. **create a class and write the information by using File Writer.**

   Code:

```java
import java.io.FileWriter;
import java.io.IOException;

public class FileWriterEx {
    public static void main(String[] args) throws IOException {
        FileWriter fw = new FileWriter("Sweety.text");

        fw.write("robert");
        fw.write("Einstein");
        fw.write(23);
        fw.write(89);
        fw.write('s');
        fw.close();
        System.out.println("Values is inserted");
    }
}
```

   Output:

```
Values is inserted
```

   Sweety.Text - robertEinstein Ys

4. **create a class and write the information by using Buffered Writer.**

   Code:

```java
import java.io.BufferedWriter;
import java.io.FileWriter;
import java.io.IOException;

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

        FileWriter fw = new FileWriter("Sweety.text");
        BufferedWriter bw = new BufferedWriter(fw);

        bw.write("robert");
```

```
        bw.write("Einstein");
        bw.write(23);
        bw.write(89);
        bw.write('s');
        bw.close();

         System.out.println("BufferedWriter");
         System.out.println("Values is inserted");
         }
    }
```

Output:

```
BufferedWriter

Values is inserted

    Sweety.Text - robertEinstein Ys
```

5. **create a class and write the information by using Print Writer.**

   Code:

```java
import java.io.PrintWriter;
import java.io.FileWriter;
import java.io.IOException;

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

        FileWriter fw = new FileWriter("Sweety.text");
        PrintWriter pw = new PrintWriter(fw);

        pw.println("robert");
        pw.println("Einstein");
        pw.println(23);
        pw.println(89);
        pw.println('s');
        pw.close();

        System.out.println("PrintWriter");
         System.out.println("Values is inserted");
    }
}
```

Output:

```
PrintWriter

Values is inserted
```

Sweety.Text - robert
                  Einstein
                  23
                  89
                  s

6. **create a class and read the information by using File Reader.**

   Code:

```java
import java.io.FileReader;
import java.io.IOException;

public class FileReaderEx {
    public static void main(String[] args) throws IOException {
        FileReader f = new FileReader("Sweety.text");

        while(f.read()!=-1) {
          char ch = (char) f.read();
          System.out.println(ch);
        }
    }
}
```

   Output:

```
oet
isen
3
9
?
```

7. **create a class and read the information by using Buffered Reader.**

   Code:

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

```java
public class BufferReaderEx {
    public static void main(String[] args) throws IOException {
        FileReader f = new FileReader("Sweety.text");
        BufferedReader b = new BufferedReader(f);

        String data=b.readLine();

        while(data!=null) {

            System.out.println(data);
            data=b.readLine();
        }
    }
}
```

Output:

```
 robert
Einstein
23
89
```

s

Session - 2

1. **create a class ArrayList apply without generics.**

    Code:

```java
package com.ia.collection;
 import java.util.ArrayList;
 import java.util.Iterator;

 public class ArrayListEx {
   public static void main(String[] args) {
       ArrayList obj = new ArrayList();
       obj.add(68);
       obj.add(false);
       obj.add(null);
       obj.add(45.0f);
       obj.add("sj");
```

```
            Iterator itr = obj.iterator();
            while(itr.hasNext()) {
                    System.out.print(itr.next()+" ");
            }
        }
    }
```

Output:

68 false null 45.0 sj

2. **create a class LinkedList apply with generics.**

   Code:

```
package com.ia.collection;

import java.util.Iterator;
import java.util.LinkedList;

public class LinkedList1 {
    public static void main(String[] args) {
      LinkedList<Number> obj = new LinkedList<Number>();
      obj.add(68);
      obj.add(89.0f);
      obj.add(null);
      obj.add(45.0f);
      obj.add(78.00);

      Iterator itr = obj.iterator();
      while(itr.hasNext()) {
              System.out.print(itr.next()+" ");
      }
    }
}
```

Output:

68 89.0 null 45.0 78.0