1.

Code

```java
import java.io.File;

public class CurrentDir {
    private static void dirList(String fname) {
        File dir = new File(fname);
        String parentpath = dir.getParent();
        System.out.println("Current Directory : " + dir);
        System.out.println("Parent Directory : " + parentpath);
    }

    public static void main(String[] args) {
        String currentdir = System.getProperty("user.dir");
        dirList(currentdir);
    }
}
```

Output

```
PS D:\OOPS-PCC-CS593\Day-28-(27.01.2021)> javac CurrentDir.java
PS D:\OOPS-PCC-CS593\Day-28-(27.01.2021)> java CurrentDir
Current Directory : D:\OOPS-PCC-CS593\Day-28-(27.01.2021)
Parent Directory : D:\OOPS-PCC-CS593
```

2.

Code

```java
import java.io.DataInputStream;
import java.io.DataOutputStream;
import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;

public class File1 {
    public static void main(String[] args) throws IOException {
        File f = new File("test.txt");
        DataOutputStream dos = new DataOutputStream(new
FileOutputStream(f));
        dos.writeInt(2019);
        dos.writeBoolean(true);
        dos.writeChar('S');
        dos.writeDouble(99.95);
        dos.close();
        DataInputStream dis = new DataInputStream(new FileInputStream(f));
        System.out.println(dis.readInt());
        System.out.println(dis.readBoolean());
        System.out.println(dis.readChar());
        System.out.println(dis.readDouble());
        dis.close();
    }
}
```

Output

```
PS D:\OOPS-PCC-CS593\Day-28-(27.01.2021)> javac File1.java
PS D:\OOPS-PCC-CS593\Day-28-(27.01.2021)> java File1
2019
true
S
99.95
```

3.

Code

```java
import java.io.File;

public class File2 {
    public static void main(String[] args) {
        try {
            String strDirectoy = "sample";
            String strManyDirectories = "dir1/dir2/dir3";
            boolean success = (new File(strDirectoy)).mkdir();
            if (success) {
                System.out.println("Directory: " + strDirectoy + "
created");
            }
            success = (new File(strManyDirectories)).mkdirs();
            if (success) {
                System.out.println("Directories: " + strManyDirectories +
" created");
            }
        } catch (Exception e) {
            System.err.println("Error: " + e.getMessage());
        }
    }
}
```

Output

```
PS D:\OOPS-PCC-CS593\Day-28-(27.01.2021)> javac File2.java
PS D:\OOPS-PCC-CS593\Day-28-(27.01.2021)> java File2
Directory: sample created
Directories: dir1/dir2/dir3 created
```

4.

Code

```java
import java.io.File;

public class File3 {
    public static void main(String[] args) {
        String strDirectory = "sample";
        boolean success = (new File(strDirectory)).renameTo(new
File("sample_edited1"));
        if (success) {
            System.out.println("sample renamed to sample_edit");
        }
    }
}
```

Output

```
PS D:\OOPS-PCC-CS593\Day-28-(27.01.2021)> javac File3.java
PS D:\OOPS-PCC-CS593\Day-28-(27.01.2021)> java File3
sample renamed to sample_edit
```

5.

Code

```java
import java.io.File;

public class File4 {
    public static void main(String[] args) {
        String curfile = "Hello.txt";
        boolean success = (new File(curfile)).setReadOnly();
        if (success) {
            System.out.println(curfile + " is set to read only");
        }
    }
}
```

Output

```
PS D:\OOPS-PCC-CS593\Day-28-(27.01.2021)> javac File4.java
PS D:\OOPS-PCC-CS593\Day-28-(27.01.2021)> java File4
Hello.txt is set to read only
```

6.

Code

```java
import java.io.File;

public class File5 {
    public static void main(String[] args) {
        String curfile = "Hello.txt";
        long l = (new File(curfile)).length();
        System.out.println("The size of " + curfile + " is " + l + "
bytes");
    }
}
```

Output

```
PS D:\OOPS-PCC-CS593\Day-28-(27.01.2021)> javac File5.java
PS D:\OOPS-PCC-CS593\Day-28-(27.01.2021)> java File5
The size of Hello.txt is 217 bytes
```