## **OBJECT ORIENTED PROGRAMMING WITH JAVA 8- LAB 13**

Q1. Write a program which takes the name of a file from user, then displays information about whether the file exists, the length of the file in bytes etc and read the contents of the file and display it.

```
import java.io.*;
import java.util.Scanner;
class FileInfo
 public static void main(String args[]) throws IOException
   Scanner sc = new Scanner(System.in);
    System.out.println("Enter the name of the file :");
    String fname = sc.nextLine();
    File f1 = new File("E:\\java_notes");
    File f2 = new File(f1,fname);
    System.out.println("File exists ? :" + f2.exists());
   System.out.println("A directory ? :" + f2.isDirectory());
    System.out.println("Name of the File :" + f2.getName());
    System.out.println("Length of the file :" + f2.length());
    System.out.println("Last modified : " +f2.lastModified());
    System.out.println("content of the directory :");
    String s[] = f1.list();
    for(int i = 0; i < 6; i + +)
       System.out.println(s[i]);
}
```

```
E:\java_notes>javac FileInfo.java
E:\java_notes>java FileInfo
Enter the name of the file :
FileEg.java
File exists ? :true
A directory ? :false
Name of the File :FileEg.java
Length of the file :756
Last modified :1698397905428
content of the directory :
A.class
ABCmain.class
ABCmain.java
Account.class
Accountbalancejava.java
AddStudent.class
```

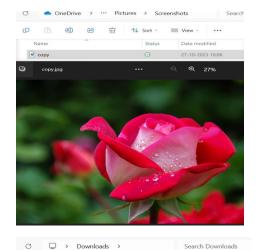
## Q2. Write a program to read the name of an image file and create a copy of that image.

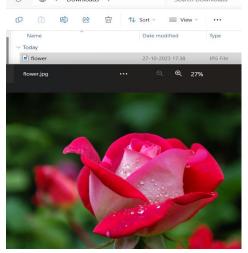
```
import java.io.*;

class ImageCopy
{
   public static void main(String [] args) throws IOException
   {
     FileInputStream in = new FileInputStream("C:\\Users\\Dell\\Downloads\\flower.jpg");
     FileOutputStream ou = new FileOutputStream("C:\\Users\\Dell\\OneDrive\\Pictures\\Screenshots\\copy.jpg");

     BufferedInputStream bin = new BufferedInputStream(in);
     BufferedOutputStream bou = new BufferedOutputStream (ou);
     int b = 0;
     while(b != -1) {
        b = bin.read();
        bou.write(b);
      }
     bin.close();
     bou.close();
}
```

## E:\java\_notes>javac ImageCopy.java E:\java\_notes>java ImageCopy





Q3. Write a program to serialize the Employee object with id, name and dept. Create 2 objects for it and store it in a file and then deserialize it and print the details.

```
import java.io.*;
class EmployeeSmple implements Serializable
{
      int id;
      String name, dept;
   EmployeeSmple(int a,String b,String c)
      id = a;
      name = b;
      dept = c;
   }
   public String toString()
      String str = "ID :"+id + " ,Name :" +name +" ,Department :" +dept ;
      return str;
class SerializationD
  public static void main(String [] args) throws IOException, ClassNotFoundException
      EmployeeSmple e = new EmployeeSmple(1,"Rashi","Admin");
      FileOutputStream fout = new FileOutputStream("serialized.dat");
      ObjectOutputStream oout = new ObjectOutputStream(fout);
      oout.writeObject(e);
      FileInputStream fin = new FileInputStream("serialized.dat");
      ObjectInputStream oin = new ObjectInputStream(fin);
      EmployeeSmple enew = (EmployeeSmple)oin.readObject();
      System.out.println(enew);
   }
}
```

```
E:\java_notes>java SerializationD
ID :1 ,Name :Rashi ,Department :Admin
```

Q4. Write a program to read contents of a file line by line and display it.

```
import java.io.*;

class ReadLinebyLine
{
   public static void main(String args[]) throws IOException
   {
      String fname = "FileEg.java";
      BufferedReader br = new BufferedReader(new FileReader(fname));
      String line;
      while((line = br.readLine()) != null) {
            System.out.println(line);
      }
      br.close();
   }
}
```