Program1: File Operation

```
package com.gsv;

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

public class FileMathod
{
  public static void main(String[] args)
  {
            try
            {
             File f1= new File("D:\\sample.txt");
             //  exists()  : public boolean exists();

              boolean status  =f1.exists();
              System.out.println("Befor status "+status);
             //createNewFile  : public boolean createNewFile()
              f1.createNewFile();
              boolean status1  =f1.exists();
              System.out.println("After status "+status1);
              //getName () :  public String getName()

               String name =  f1.getName();
               System.out.println(name);

               System.out.println("File Delete Status  :"+f1.delete());
               System.out.println(f1.exists());

                File f2=  f1.getAbsoluteFile();
                System.out.println(f2); //f2.toString()

                System.out.println("Absolute Path"+f1.getAbsolutePath());

                System.out.println("Read only"+f1.canRead());
                System.out.println("Write only"+f1.canWrite());

                File f3  = new File("D:\\A\\B");
                            //System.out.println(f3.mkdir());
                            System.out.println(f3.mkdirs());
              File f4  = new File(f3,"sample.png");
              f4.createNewFile();
              System.out.println(f4.isFile());
              System.out.println(f4.isDirectory());
              System.out.println(f4.isHidden());
              System.out.println("Length :"+f4.length());
              File f5  = new File("D:\\");
               String all[]=  f5.list();
               for(String file1  :  all )
               {
                    System.out.println(file1);
               }

            }
            catch(IOException ex)
```

```
            {
                ex.printStackTrace();
            }
  }
}
```

Program2: Write data inside the file using FileWriter.

```
package com.sdj;

import java.io.File;
import java.io.FileWriter;
import java.io.IOException;

public class FileWriterDemo
{
  public static void main(String[] args)
  {
     File f1  =null;
     FileWriter  fw =null;
     try
     {
      f1  = new File("D:\\demo.txt");
      fw = new FileWriter(f1);
      fw.write("SDJ INFOSOFT");
      System.out.println("Length of File  "+f1.length());
     }
     catch(IOException ex)
     {
        ex.printStackTrace();
     }
     finally
     {
         try
         {
            if(fw!=null)
            {
               fw.flush();
               fw.close();
               fw =null;
               System.out.println("Length of File  "+f1.length());
            }
         }
         catch(IOException ex)
         {
            ex.printStackTrace();
         }

     }


  }

}
```

Program3: Write data inside the file using File Reader.

```
package com.gsv;
```

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

public class FileReaderDemo
{
  public static void main(String[] args)
  {
     File f1 = null;
     FileReader fr =null;
     try
     {
        System.out.println("start");
         f1  = new File("D:\\demo.txt");
         fr  = new FileReader(f1);
         //read() : public int read();

         int ch  = fr.read();
         System.out.println(ch);
     }
     catch(IOException ex)
     {
        ex.printStackTrace();
     }
  }
}
```

Program 4: Image Read and Write using FileInputStream and OutputStream Class

```
package com.gsv;

import java.io.File;
import java.io.FileInputStream;
import java.io.FileOutputStream;
import java.io.IOException;

public class FileInputStreamDemo
{
  public static void main(String[] args)
  {
            FileInputStream fis  =null;
            FileOutputStream fos  =null;
            File f1  =null;
            try
            {
                        f1  = new File("D:\\gsv.jpg");

                        fis =  new FileInputStream(f1);
                        long  len  =  f1.length();
                        byte all[]  =new byte[(int)len];
                        fis.read(all);
                        fos  =new FileOutputStream("D:\\gsv1.jpg");
                        fos.write(all);
                        for(int i=0;i<all.length;i++)
                        {
                                    System.out.print(" "+all[i]);
                        }
```

```
    }
        catch(IOException ex)
        {
            ex.printStackTrace();
        }
        finally
        {
            try
            {
                if(fis!=null)
                {
                    fis.close();
                }
            }
            catch(IOException ex)
            {
                ex.printStackTrace();
            }
            try
            {
                if(fos!=null)
                {
                    fos.close();
                    fos  =null;
                }
            }
            catch(IOException ex)
            {
                ex.printStackTrace();
            }
        }

  }
}
```

Program 5: Write content from one file to other .txt file.

```
package com.gsv;

import java.io.File;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;

public class DemoCopy
{
   public static void main(String[] args)
   {
            File f1  =null;
            File f2  =null;
            FileWriter fw =  null;
            FileReader fr  =null;
            FileWriter fw1 =  null;
            try
            {
                f1  = new File("sdj1.txt");
                fw  = new FileWriter(f1);
                fw.write("SDJ INFOSOFT");
```

```
            }
            catch(IOException ex)
            {
                  ex.printStackTrace();
            }
            finally
            {
                  try
                  {
                        if(fw!=null)
                        {
                              fw.flush();
                              fw.close();
                        }
                  }
                  catch(IOException ex)
                  {
                        ex.printStackTrace();
                  }
            }
            try
            {
                  f2  = new File("sdj2.txt");
                  fw1  = new FileWriter(f2);
                  fr  = new FileReader(f1);
                  int ch;
                  while((ch=fr.read())!=-1)
                              {
                        fw1.write((char)ch);

                              }
            }
            catch(IOException ex)
            {
                  ex.printStackTrace();
            }
            finally
            {
                  try
                  {
                        if(fr!=null)
                        {
                              fr.close();
                        }
                        if(fw1!=null)
                        {
                              fw1.flush();
                              fw1.close();
                        }
                  }
                  catch(IOException ex)
                  {
                        ex.printStackTrace();
                  }
            }

      }
}
```

Program 6: Serilizable and Deserializabe

```
package com.sdj;
import java.io.Serializable;

public class Person implements Serializable //marker interface
{
  int age;
  float weight;
  double height;
  String name;
  static int sid;
  transient int sno;
}
```

//Serializable Program

```
package com.gsv;

import java.io.FileOutputStream;
import java.io.IOException;
import java.io.ObjectOutputStream;

public class PersonSerial
{
  public static void main(String[] args)
  {
        Person p1 = new Person();
        p1.age=24;
        p1.weight=56.7f;
        p1.height=5.11;
        p1.name="demo";
        p1.sid=45555;
        p1.sno=411;
        FileOutputStream fos =null;
        ObjectOutputStream oos =null;
    try
    {
        fos  = new FileOutputStream("D:\\sdj.txt");
        oos  = new ObjectOutputStream(fos);
        oos.writeObject(p1);
    }
    catch(IOException ex)
    {
        ex.printStackTrace();
    }
    finally
    {
         try
         {
              if(oos!=null)
              {
                   oos.flush();
                   oos.close();
                   oos =null;
              }
         }
```

```
            catch(IOException ex)
            {
                  ex.printStackTrace();
            }
            try
            {
                  if(fos!=null)
                  {
                        fos.flush();
                        fos.close();
                        fos =null;
                  }
            }
            catch(IOException ex)
            {
                  ex.printStackTrace();
            }
    }

  }
}
```

//Deserializable Program

```
package com.gsv;

import java.io.FileInputStream;
import java.io.IOException;
import java.io.ObjectInputStream;

public class PersonDesrial
{
  public static void main(String[] args)
  {
            FileInputStream fis =null;
            ObjectInputStream ois =null;
            try
            {
                  fis = new FileInputStream("d:\\sdj.txt");
                  ois  = new ObjectInputStream(fis);
                  Person p1  =  (Person)ois.readObject();
                  System.out.println("Age  :"+p1.age);
                  System.out.println("weight   :"+p1.weight);
                  System.out.println("Height  :"+p1.height);
                  System.out.println("Name  :"+p1.name);
                  System.out.println("sid :"+p1.sid);
                  System.out.println("sno  :"+p1.sno);

            }
            catch(IOException ex)
            {
                  ex.printStackTrace();
            }
            catch(ClassNotFoundException ex)
            {
                  ex.printStackTrace();
            }
            finally
            {
```

```
                    try
                    {
                        if(ois!=null)
                        {
                            ois.close();
                            ois =null;
                        }
                    }
                    catch(IOException ex)
                    {
                        ex.printStackTrace();
                    }

                    try
                    {
                        if(fis!=null)
                        {
                            fis.close();
                            fis =null;
                        }
                    }
                    catch(IOException ex)
                    {
                        ex.printStackTrace();
                    }
            }
    }
}
```