

Programming Lab

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Java IO Package

1. Write a program that demonstrate File class.

```
import java.io.*;
import java.util.*;

class Filedemo
{
    public static void main(String a[])
    {

        File f1=new File("E:/java");
        File f2=new File(f1,"japp1.java");
        System.out.println("path "+f2.getPath());
        System.out.println("name "+f2.getName());
        System.out.println("size "+f2.length());
        System.out.println("directory "+f1.isDirectory());
        System.out.println("file "+f2.isFile());
        System.out.println("exists "+f2.exists());
        System.out.println("Parent: "+f2.getParent());

        long t = f2.lastModified();
        Date dt= new Date(t);
        System.out.println("LastModified: "+dt );

        String list[]=f1.list();
        int n=list.length;
        for(int i=0;i<n;i++)
        {
            if(list[i].charAt(0)=='u')
            {
                System.out.println(list[i]);
            }
        }
    }
}
```

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▼ 2020 (3)

▼ December (3)

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```
}
```

```
}
```

```
}
```

- 2. Write a java program to write 1 to 10 in one file, read the same file and copy even numbers in even file and odd numbers in odd file. Read both, even and odd files.**

```
import java.io.*;

public class eveodd
{
    public static void main(String args[])
    {

        try
        {
            FileOutputStream fw =new FileOutputStream("first4");
            for(int i=1;i<=10;i++)
            fw.write(i);

            fw.close();
        }
        catch(Exception e){ }

        try
        {
            FileOutputStream fw=new FileOutputStream("even");
            FileOutputStream fw1=new FileOutputStream("odd");

            FileInputStream fr=new FileInputStream("first4");
            int j;
            while((j=fr.read())!=-1)
            {
                if(j%2==0)
                    fw.write(j);
                else
                    fw1.write(j);
            }
        }
    }
}
```

```

fr.close();

fw.close();

fw1.close();

}

catch(Exception e){ }

try{

FileInputStream fr=new FileInputStream("even");

FileInputStream fr1=new FileInputStream("odd");

int k;

System.out.println("Even data");

while((k=fr.read())!=-1)

System.out.println(k);

System.out.println("Odd data");

while((k=fr1.read())!=-1)

System.out.println(k);

fr.close();

fr1.close();

}

catch(Exception e){}

}

}

```

3. Write a program that describes how to write objects to the file and read object from the file.

```

import java.io.*;

class Biodata implements Serializable

{

String n;

int age;

Biodata(){ }

Biodata(String n1, int a1)

{

n=n1;

age=a1;

}

void print()

```

```

{
    System.out.println("name"+n);
    System.out.println("age"+age);
}
}

class ObjDemo
{
    public static void main(String args[])
    {
        try
        {

            FileOutputStream fos=new FileOutputStream("obj1.dat");
            ObjectOutputStream ob=new ObjectOutputStream(fos);

            Biodata m2=new Biodata("ghi",3);

            ob.writeUTF(m2.n);
            ob.writeInt(m2.age);
            ob.flush();
            ob.close();

            Biodata b1;
            Biodata b2= new Biodata();

            ObjectInputStream obj1= new ObjectInputStream(new
            FileInputStream("obj1.dat"));

            while(true)
            {

                b2.n=(String)obj1.readUTF();
                b2.age=(int)obj1.readInt();
                b2.print();
                if(b2.age==3)
                    break;
            }

            obj1.close();
        }
        catch(Exception e)

```

```
{  
    System.out.println("excetion"+e.getMessage());  
}  
}  
}
```

4. Write a program to write object to the file and read object from the file.

```
import java.io.*;  
  
class Biodata implements Serializable  
{  
    String n;  
    int age;  
    Biodata(){ }  
    Biodata(String n1, int a1)  
    {  
        n=n1;  
        age=a1;  
    }  
    void print()  
    {  
        System.out.println("name"+n);  
        System.out.println("age"+age);  
    }  
}  
  
class ObjDemo1  
{  
    public static void main(String args[])  
    {  
        try  
        {  
  
            FileOutputStream fos=new FileOutputStream("obj1.dat");  
            ObjectOutputStream ob=new ObjectOutputStream(fos);  
            Biodata m=new Biodata("abc",1);  
            Biodata m1=new Biodata("def",2);  
            ob.writeObject(m);  
            ob.writeObject(m1);
```

```

ob.flush();

ob.close();


Biodata b1;

int i=0;


ObjectInputStream obj1= new ObjectInputStream(new
FileInputStream("obj1.dat"));

while(true)

{

    b1=(Biodata)obj1.readObject();

    b1.print();

    i++;

    if(i==2)

        break;

}

obj1.close();

}

catch(Exception e)

{

    System.out.println("exception"+e.getMessage());

}

}

}

```

5. Write a program that describes, how to access data randomly from the file.

```

import java.io.*;

class RandDemo

{

    public static void main(String args[])

    {

        File f=new File("ran.txt");

        int a=123,a1,a2;

        String s="abcdef",s1,s2;

```

```
long l=9876,l1,l2;

long ap,lp,sp;

try
{
    RandomAccessFile rf=new RandomAccessFile(f,"rw");

    rf.writeInt(a);

    rf.writeUTF(s);

    rf.writeLong(l);

    rf.close();

    rf=new RandomAccessFile(f,"rw");

    ap=rf.getFilePointer();

    a1=rf.readInt();

    sp=rf.getFilePointer();

    s1=rf.readUTF();

    lp=rf.getFilePointer();

    l1=rf.readLong();

    System.out.println("sequential data:");

    System.out.println(" "+a1+s1+l1);

    //-----random reading-----

    rf.seek(ap);

    a2=rf.readInt();

    rf.seek(lp);

    l2=rf.readLong();

    rf.seek(sp);

    s2=rf.readUTF();

    System.out.println("random data:");

    System.out.println(" "+a2+s2+l2);

    rf.close();

}

catch(IOException e)
```

```

{

    System.out.println(" "+e.getMessage());

}

}

}

```

- 6. Write a program that demonstrate use of SequenceInputStream class. [f1.txt and f2.txt files are already exists.]**

```

import java.io.*;

class sequencedemo
{

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

        FileInputStream f1= new FileInputStream("f1.txt");

        FileInputStream f2= new FileInputStream("f2.txt");

        SequenceInputStream s=new SequenceInputStream(f1,f2);

        int ans;

        while((ans=s.read())!=-1)

            System.out.print((char)ans);

        f1.close();

        f2.close();

        s.close();

    }

}

```

- 7. Write a program that describes keyboard input.**

```

import java.io.*;

public class std1
{

    public static void main(String args[]) //throws Exception
    {

        DataInputStream dis =new DataInputStream(System.in);
    }
}

```



```
int i;

float f;

char c;

String s;

try{

    System.out.println("enter integer");

    i=Integer.parseInt(dis.readLine());


    System.out.println("enter float");

    f=Float.valueOf(dis.readLine()).floatValue();


    System.out.println("enter string");

    s=dis.readLine();


    System.out.println("enter character");

    c=(char)dis.read();


    System.out.println("integer "+i);

    System.out.println("character "+c);

    System.out.println("float "+f);

    System.out.println("string "+s);

} catch(Exception e){}

}
```

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