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Q1. Write a java program to handle Exception using try, catch, finally block while reading input from command line and store to integer array.

```
class Exception_Handling
{
public static void main(String[] args)
{
int[] a = new int[10];

int i;

try{
for(i=0;i<args.length;i++)
{
a[i]=Integer.parseInt(args[i]);
}
}
catch(Exception e)
{
System.out.println(e);
}
finally{
System.out.println("End of program....");
}
}
}
```

Output:

Command Prompt

Microsoft Windows [Version 10.0.14393]

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C:\Users\iball>F:

F:\>cd "Anudip"

F:\Anudip>javac Exception_Handling.java

F:\Anudip>java Exception_Handling 10 20 30 40

End of program....

F:\Anudip>java Exception_Handling 10 20 DEEPHI

java.lang.NumberFormatException: For input string: "DEEPHI"

End of program....

F:\Anudip>java Exception_Handling 10 20 30 40 45 50 550 60 65 70 80 90 100

java.lang.ArrayIndexOutOfBoundsException: Index 10 out of bounds for length 10

End of program....

F:\Anudip>java Exception_Handling 10 20.5826955 30 40 50

java.lang.NumberFormatException: For input string: "20.5826955"

End of program....

F:\Anudip>_



Type here to search



Q2. Write a java program for Method level exception handling, for writing data to file using objects.

```
package LAB5;
import java.io.*;
public class FileWriting {
    public void Writedata()throws Exception
    {
        FileOutputStream fout = new
FileOutputStream("F:\\Deepthi\\Write.txt");
        ObjectOutputStream out = new ObjectOutputStream(fout);
        Data s = new Data(100,"Deepthi");
        // s.Show();
        out.writeObject(s);

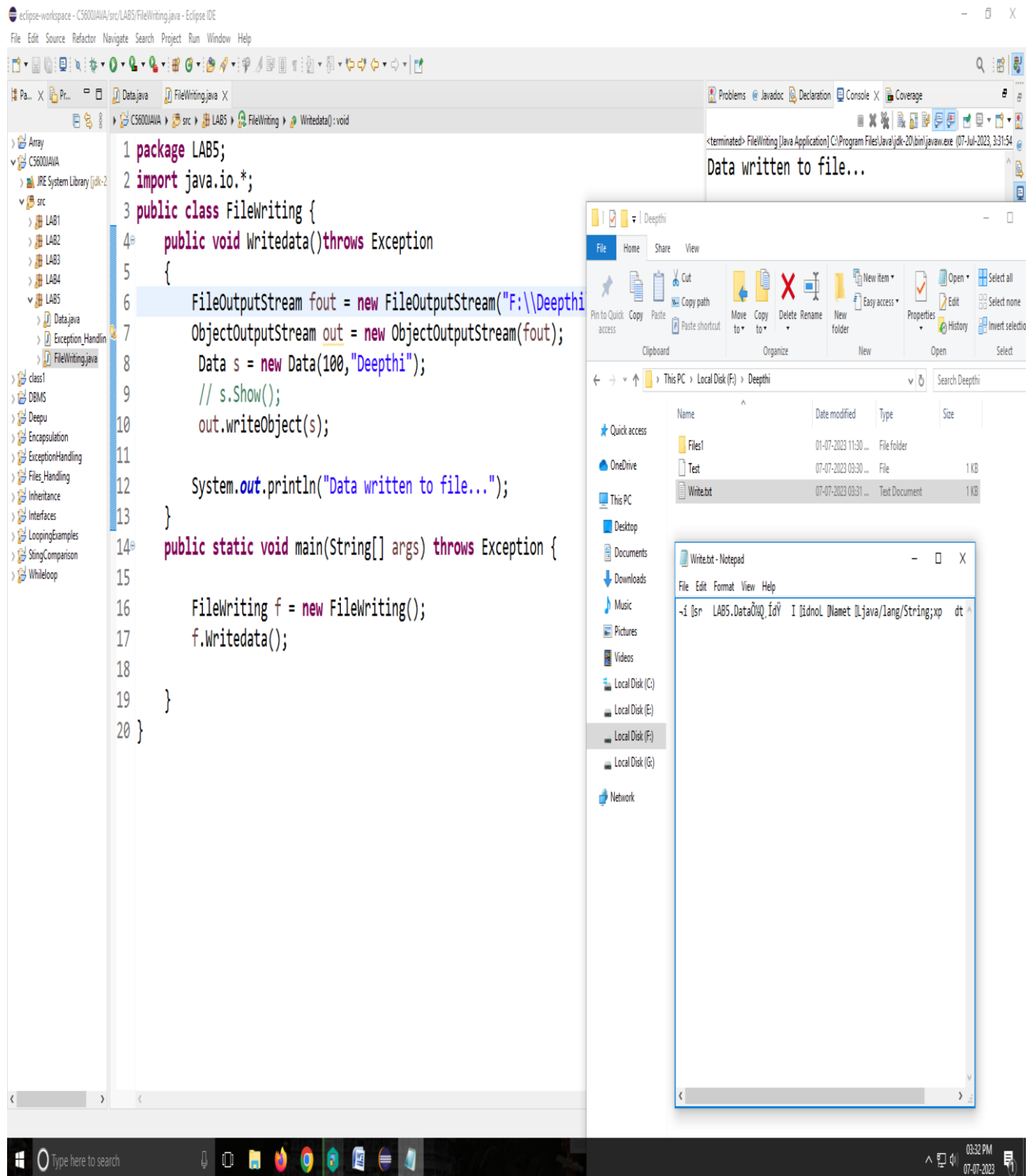
        System.out.println("Data written to file...");
    }
    public static void main(String[] args) throws Exception {

        FileWriting f = new FileWriting();
        f.Writedata();

    }
}
package LAB5;
import java.io.Serializable;
public class Data implements Serializable {
    int idno;
    String Name;

    public Data(int id, String na)
    {
        idno=id;
        Name=na;
    }
}
```

Output:



Q3. Write a java program to illustrate, the user can check error conditions and call the catch block.

```
package LAB5;
import java.util.*;
public class ErrorCondtion {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int x,y,z;
        try {
            System.out.println("Enter 2 integer values ");
            x=sc.nextInt();
            y=sc.nextInt();

            if(y==0)
            {
                Exception eobj = new Exception("divisor must be non
zero value ");
                throw(eobj);
            }
            else
            {
                z=x/y;
                System.out.println("dvivison "+ z);
            }
        }
        catch(Exception e)
        {
            System.out.println(e);
        }
    }
}
```

Output:

Enter 2 integer values

25

5

divivison 5

(OR)

Enter 2 integer values

9

0

[java.lang.Exception](#): divisor must be non zero value

(OR)

Enter 2 integer values

12

9.6

[java.util.InputMismatchException](#)

Q4. Write a java program to illustrate IO exception

```
package LAB5;
import java.io.*;
public class IOExcep {
    public static void main(String[] args) {
        FileReader fileReader = null;
        try {
            // Creating a FileReader object to read a file
            fileReader = new FileReader("input.txt");
            // Reading the contents of the file
            int character;
            while ((character = fileReader.read()) != -1) {
                System.out.print((char) character);
            }
        }
        catch (IOException e)
        {
            // Handling the IOException
            System.out.println("An error occurred while reading the file:
" + e);
        }
        finally
        {
            // Closing the FileReader object in the finally block to ensure
            it's always closed
            try
            {
                if (fileReader != null)
                {
                    fileReader.close();
                }
            }
            catch (IOException e)
            {
                System.out.println("An error occurred while closing
the file: " + e);
            }
        }
    }
}
```

Output:

An error occurred while reading the file: [java.io.FileNotFoundException](#):
input.txt (The system cannot find the file specified)