

(LAB5)

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

```
package IO_files;

public class Exp_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("Final Block is Executed Succesfully");

        }

    }

}
```

```
}
```

```
}
```

Output:

```
11 12 13 14 15 16
```

Final Block is Executed Succesfully

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

```
package IO_files;
```

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

```
import java.io.Serializable;
```

```
public class Exp_1 implements Serializable{
```

```
int idno;
```

```
String Name;
```

```
public Exp_1(int id, String na){
```

```
idno=id;
```

```
Name=na;
```

```
}
```

```
}
```

```
package IO_files;
```

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

```
public class FILE_WRITING {
```

```
public void Writedata()throws Exception{
```

```

FileOutputStream fout = new
FileOutputStream("C:\\\\Veronica\\\\Veronica.txt");

ObjectOutputStream out = new ObjectOutputStream(fout);

Exp_1 s = new Exp_1(1,"Veronica");

out.writeObject(s);

System.out.println("data written to file...");

}

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

FILE_WRITING f = new FILE_WRITING();

f.Writedata();

}

}

```

OUTPUT:

data written to file...

```
~í sr IO_files.Exp_1>/%00Ø+bM$ I
```

```
idnoL
```

```
Namet_x0012_Ljava/lang/String;xp t
```

```
Veronica
```

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

```
package IO_files;
```

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

```
public class THROW {  
  
    public static void main(String[] args) {  
  
        Scanner sc = new Scanner(System.in);  
  
        int a,b,c;  
  
        try {  
  
            System.out.println("Enter 2 integer values ");  
  
            a=sc.nextInt();  
  
            b=sc.nextInt();  
  
            if(b==0)  
            {  
  
                Exception o = new Exception("Divisor must be non zero value ");  
  
                throw(o);  
  
            }  
  
            else  
  
            {  
  
                c=a/b;  
  
                System.out.println("dvivison "+ c);  
  
            }  
  
        }  
  
        catch(Exception e)  
  
        {  
  
            System.out.println(e);  
  
        }  
    }  
}
```

```
}  
}
```

OUTPUT:

Enter 2 integer values

10

5

dvivison 2

(OR)

Enter 2 integer values

2

0

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

(OR)

Enter 2 integer values

5

Veronica

[java.util.InputMismatchException](#)

4. Write a java program to illustrate IO exception

```
package IO_files;
```

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

```
public class File_writers {
```

```
public static void main(String[] args) {
```

```
//Create a new scanner with the specified String Object

Scanner scan = new Scanner("Veronica IS A FULL STACK DEVELOPER
IN INFOSYS");

//Print the line

System.out.println("" + scan.nextLine());

//Check if there is an IO exception

System.out.println("Exception Output: " + scan.ioException());

scan.close();

}

}
```

OUTPUT:

Veronica IS A FULL STACK DEVELOPER IN INFOSYS

Exception Output: null