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

```
import java.util.*;
class Program1
public static void main(String[] args)
int[] a = new int[10];
int i;
try{
for(i=0;i<args.length;i++)</pre>
a[i]=Integer.parseInt(args[i]);
catch(Exception e)
System.out.println(e);
finally{
System.out.println("End of program....");
}
}
```

Output:

```
Command Prompt
 dicrosoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
 :\>cd "Anudip"
 :\Anudip>javac Exception_Handling.java
 :\Anudip>java Exception_Handling 10 20 30 40 and of program....
 :\Anudip>java Exception_Handling 10 20 DEEPTHI
ava.lang.NumberFormatException: For input string: "DEEPTHI"
ind of program....
 :\Anudip>java Exception_Handling 10 20 30 40 45 50 550 60 65 70 80 90 100 ava.lang.ArrayIndexOutOfBoundsException: Index 10 out of bounds for length 10 and of program....
 :\Anudip>java Exception_Handling 10 20.5826955 30 40 50 ava.lang.NumberFormatException: For input string: "20.5826955" and of program....
  :\Anudip>_
```

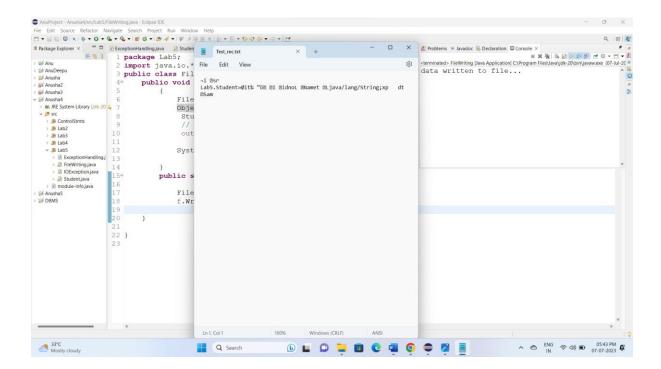
Q2. Write a java program for Method level exception handling, for writing data to file using objects.

```
package Lab5;
import java.io.Serializable;
public class Student implements Serializable {
    int idno;
    String Name;
    public Student(int id, String na)
    {
         idno=id;
        Name=na;
    }
}
package Lab5;
import java.io.*;
public class FileWriting {
    public void Writedata()throws Exception
        FileOutputStream fout = new
FileOutputStream("d:\\Test rec.txt");
        ObjectOutputStream out = new
ObjectOutputStream(fout);
          Student s = new Student(100, "Sam");
          // 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();
```

```
}
```

Output:

data written to file...



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

```
package Lab5;
import java.util.*;
public class throwExample {
    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 eobj = new
Exception("divisor must be non zero value ");
                  throw(eobj); //call the catch block
manually
             }
             else
                  c=a/b;
                  System.out.println("dvivison "+ c);
             }
         catch(Exception e)
             System.out.println(e);
         }
    }
}
```

Output:

```
Enter 2 integer values 20 10 dvivison 2
```

Q4. Write a java program to illustrate IO exception

```
package Lab5;
import java.util.*;
public class IOException {
    public static void main(String[] args) {
     //Create a new scanner with the specified String
Object
         Scanner scan = new Scanner("Hello World!
Hello JavaTpoint.");
            //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:
Hello World! Hello JavaTpoint.
Exception Output: null
```