

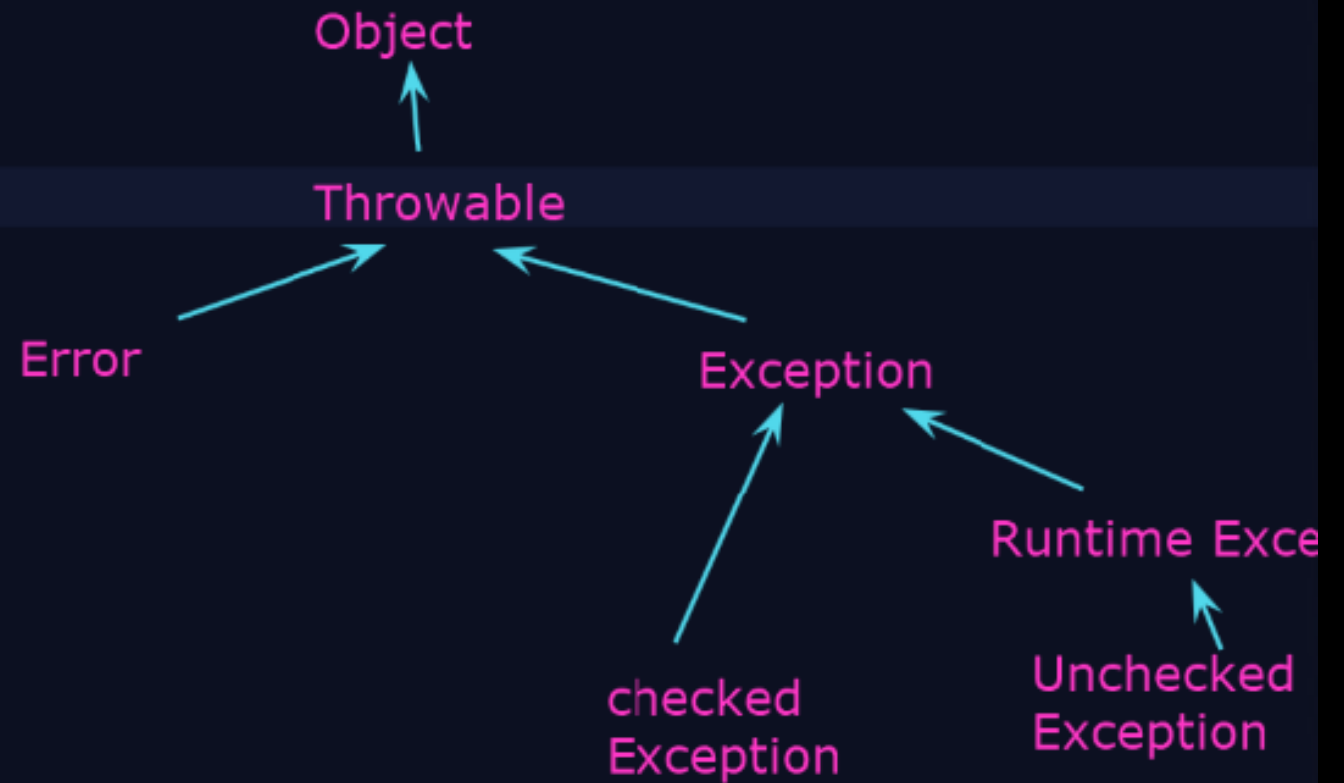


# Object Oriented Programming with Java (OOPJ)

Session 13: Exception Handling  
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## Topics-

- Exception Handling
- Unchecked Exception
- Checked Exception



```
class ExceptionDemo9{  
  
    void m1(){  
        System.out.println("m1() : executed");  
    }  
    public static void main(String[] args){  
  
        System.out.println("start");  
        ExceptionDemo9 d1 = null;  
        try{  
            System.out.println("aaaaaaa");  
            d1.m1();  
            System.out.println("bbbbbb");  
        }catch(Throwable e){  
            e.printStackTrace();  
        }finally{  
            System.out.println("Bhai Resour");  
        }  
        System.out.println("stop");  
    }  
}
```

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C:\WINDOWS\systemer x + v

C:\Test>javac ExceptionDemo9.java

C:\Test>java ExceptionDemo9

start

aaaaaaa

java.lang.NullPointerException: Cannot invoke "ExceptionDemo9.m1()" because "  
e "<local1>" is null

at ExceptionDemo9.main(ExceptionDemo9.java:13)

Bhai Resources ko release kar do!!!

stop

C:\Test>

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

```
    System.out.println("start");
```

```
    //Method 2 :throw
```

```
    try{
```

```
        System.out.println("aaaaaa");
```

```
        throw new NullPointerException(); //dl = n
```

```
        //System.out.println("bbbbbb");
```

```
    }catch(NullPointerException e){
```

```
        e.printStackTrace();
```

```
    }finally{
```

```
        System.out.println("Bhai Resources ko release kar do!!!");
```

```
    }
```

```
    System.out.println("stop");
```

```
}
```



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1 error

C:\Test>javac ExceptionDemo10.java

C:\Test>java ExceptionDemo10

start

aaaaaaa

java.lang.NullPointerException

at ExceptionDemo10.main(ExceptionDemo10.java:16)

Bhai Resources ko release kar do!!!

stop

C:\Test>



```
class ExceptionDemo14{
```

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```
    static void m3(){
        System.out.println("m3() : excutes");
        try{
            int i=1/0;
        }catch(ArithmeticException e){
            e.printStackTrace();
        }
        System.out.println("m3() : excutes : before");
    }

    static void m2(){
        System.out.println("m2() : excutes");
        m3();
        System.out.println("m2() : excutes : before");
    }

    static void m1(){
        System.out.println("m1() : excutes");
        m2();
        System.out.println("m1() : excutes : before");
    }

    static void m(){
        System.out.println("m() : excutes");
        m1();
        System.out.println("m() : excutes : before");
    }

    public static void main(String args[]){
        System.out.println("1");

        m();

        System.out.println("stop");
    }
}
```

C:\WINDOWS\systemer x + v

```
C:\Test>javac ExceptionDemo14.java
```

```
C:\Test>java ExceptionDemo14
```

```
1
```

```
m() : excutes
```

```
m1() : excutes
```

```
m2() : excutes
```

```
m3() : excutes
```

```
java.lang.ArithmeticException: / by zero
```

```
at ExceptionDemo14.m3(ExceptionDemo14.java:7)
```

```
at ExceptionDemo14.m2(ExceptionDemo14.java:15)
```

```
at ExceptionDemo14.m1(ExceptionDemo14.java:20)
```

```
at ExceptionDemo14.m(ExceptionDemo14.java:25)
```

```
at ExceptionDemo14.main(ExceptionDemo14.java:35)
```

```
m3() : excutes : before
```

```
m2() : excutes : before
```

```
m1() : excutes : before
```

```
m() : excutes : before
```

```
stop
```

```
C:\Test>
```

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

```
class ChExceptionDemo1{
```

```
    public static void main(String args[]){
        System.out.println("start");
        //int i = Integer.parseInt("ab");//
```

```
        try{
            int j = System.in.read();//Check
        } catch (IOException e){
            e.printStackTrace();
        }
```

```
        System.out.println("stop");
    }
}
```

You are screen sharing Stop share

```
C:\WINDOWS\system x + v
int j =System.in.read();
^
1 error
C:\Test>javac ChExceptionDemo1.java
C:\Test>java ChExceptionDemo1
start
a
stop
C:\Test>
```

```
public static void main(String args[]){
    System.out.println("1");
    m1();
}
```

```
static void m1(){
    System.out.println("2");
    System.out.println("m1() : executed");
    m2();
    System.out.println("3");
}
```

```
static void m2(){
    System.out.println("4");
    System.out.println("m2() : executed");
    System.out.println("Enter any character:");
    try{
        System.out.println("5");
        int j = System.in.read();
        System.out.println("Character="+ (char)j);
        System.out.println("6");
    }catch(IOException e){
        e.printStackTrace();
        System.out.println("7");
    }
    System.out.println("8");
}
```

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m2() : executed  
Enter any character:  
x  
Charcter=x

C:\Test>javac ChExceptionDemo4.java

C:\Test>java ChExceptionDemo4

1  
2  
m1() : executed  
4  
m2() : executed  
Enter any character:  
5  
c  
Charcter=c  
6  
8  
3  
C:\Test>



```
class ChExceptionDemo6{
```

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

```
        System.out.println("1");
```

```
        System.out.println("Enter any character:");
```

```
        System.out.println("2");
```

```
        try{
```

```
            int j = System.in.read();//Checked Exception IO
```

```
            System.out.println("Character="+ (char)j);
```

```
            System.out.println("4");
```

```
            m1();
```

```
            System.out.println("5");
```

```
        }catch(IOException e){
```

```
        }
```

```
        System.out.println("8");
```

```
    }
```

```
    static void m1(){
```

```
        System.out.println("6");
```

```
        System.out.println("m1() : executed");
```

```
        //m2();
```

```
        System.out.println("7");
```

```
    }
```

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Stop share

C:\WINDOWS\systemer x + v

```
C:\Test>javac ChExceptionDemo6.java
```

```
ChExceptionDemo6.java:18: error: <identifier> expected
        }catch(IOException){
                        ^
```

```
1 error
```

```
C:\Test>javac ChExceptionDemo6.java
```

```
C:\Test>java ChExceptionDemo6
```

```
1
```

```
Enter any character:
```

```
2
```

```
d
```

```
Character=d
```

```
4
```

```
6
```

```
m1() : executed
```

```
7
```

```
5
```

```
8
```

```
C:\Test>
```