3) java.util.InputMismatchException :
---
* While reading the data from the Scanner class, We should read appropriate value based on Scanner class method otherwise we will get java.util.InputMismatchException

```
 Scanner sc = new Scanner(System.in);
 System.out.println("Enter Your Roll :");
 int roll = sc.nextInt();
 System.out.println("Your Roll Number is :"+roll);
```

Note : If we will read any value except integer then we will get Exception

4) java.lang.NegativeArraySizeException :
---
* Array size must be positive integer only, If we try to pass negative size then we will get an exception java.lang.NegativeArraySizeException

```
 int size = -12;
 int []arr = new int[size];
```

5) java.lang.NumberFormatException :
---
* While converting the String into number either primitive OR Wrapper type, If the number is not in a proper format then we will get java.lang.NumberFormatException

```
 String str = "NIT";
 int val = Integer.parseInt(str);
 System.out.println("Value is :"+val);

 String str = "Java";
 Integer obj = Integer.valueOf(str);
 System.out.println(obj);
```

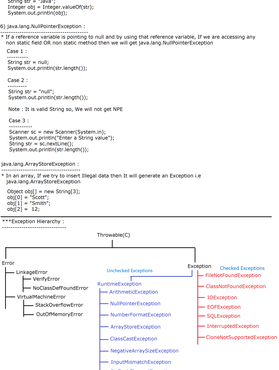
6) java.lang.NullPointerException :
---
* If a reference variable is pointing to null and by using that reference variable, If we are accessing any non static field OR non static method then we will get java.lang.NullPointerException

```
Case 1 :
---------
String str = null;
System.out.println(str.length());

Case 2 :
---------
String str = "null";
System.out.println(str.length());

 Note : It is valid String so, We will not get NPE

  Case 3 :
  ---------
  Scanner sc = new Scanner(System.in);
  System.out.println("Enter a String value");
  String str = sc.next();
  System.out.println(str.length());
```

java.lang.ArrayStoreException :
---
* In an array, If we try to insert Illegal data then It will generate an Exception i.e java.lang.ArrayStoreException

```
 Object obj[] = new String[3];
 obj[0] = "Scott";
 obj[1] = "Smith";
 obj[2] = 12;
```

***Exception Hierarchy :



* A developer is not responsible for Error because We cannot recover Error, A developer is responsible for Exception.

WAP in java that shows **Exception** is the super class of all the Exceptions we have in java.

```
package com.ravi.exception_demo;

import java.io.FileNotFoundException;
import java.io.IOException;

public class ExceptionDemo
{
    public static void main(String[] args)
    {
        Exception e1 = new ArithmeticException();
        System.out.println(e1.toString());

        Exception e2 = new ArithmeticException("Divide By Zero");
        System.out.println(e2.toString());

        Exception e3 = new FileNotFoundException();
        System.out.println(e3);

    }
}
```

Exception format :

The java software people has provided the format of exception so whenever we print exception object by using toString() then the format is

Fully Qualified Name : errorMessage

Package Name + Class Name : errorMessage
