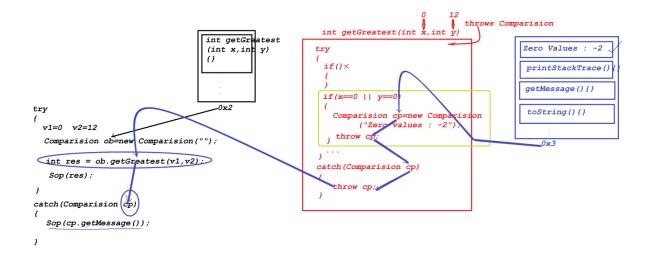
Dt: 9/9/2023
faq:
wt is the diff b/w
(i)throw
(ii)throws
(i)throw: =>"throw" keyword is used to throw the object reference onto catch
block.
(ii)throws:
=>"throws" keyword will raise the exception at method call.
= X
*imp
(b)User defined Checked Exceptions:
=>The Checked Exceptions which are defined and raised by the programmer
are known as User defined Checked Exceptions
=>we use the following steps to define and raise User defined Checked
Exceptions:
step-1 : user defined method signature added with "throws" keyword.

step-2 : declare "throw" keyword in catch-block and perform re-throwing process.

```
Ex:
ProjectName : App_Exception3
packages,
p1 : Comparision.java
package p1;
public class Comparision extends Exception
{
    public Comparision(String msg)
         super (msg);
    public int getGreatest(int x,int y) throws
Comparision
    {
        try
         {
                y<0)//Exception Condition
              Comparision cp = new Comparision
                       ("Negative values : -1");
              throw cp;
         if (x==0 \mid y==0) / Exception Condition
              Comparision cp = new Comparision
                       ("Zero values : -2");
              throw cp;
         if(x>y) return x;
         else return y;
        }//end of try
```

```
catch(Comparision cp)
            throw cp;
     }
}
p2: DemoException3.java
package p2;
import java.util.*;
import p1.*;
public class DemoException3
{
     public static void main(String[] args)
    Scanner s = new Scanner(System.in);
    try
    {
      System.out.println("Enter the value-1:");
      int v1 = s.nextInt();
      System.out.println("Enter the value-2:");
      int v2 = s.nextInt();
      Comparision ob = new Comparision("");//Con_call
      int res = ob.getGreatest(v1, v2);
      System.out.println("Result:"+res);
```

```
}
    catch(InputMismatchException ime)
    {
     System.out.println("Enter only Integer values..");
    }
    catch(Comparision cp)
    {
     System.out.println(cp.getMessage());
    finally
    {
     s.close();
Diagram:
```



===

faq:

define re-throwing process?

=>The process of declaring "throw" keyword in catch block and performing throwing process is known as re-throwing process.

=>In re-throwing process the exception is handled by the catch-block of try-block where method-call is available.

faq:

define Exception propagation?

=>In Exception re-throwing process the exception is moved from one method to another method is known as Exception propagation.