```
Dt: 13/9/2023
*imp
Handling Multiple Exceptions:
 =>To handle multiple exceptions we use the following:
    1.we can handle multiple exceptions by declaring multiple catch
blocks to a try-block
      Syntax:
      try
        Exception1
        Exception2
      catch(Exception1 ob)
        //msg
     catch(Exception2 ob)
      //msg
  2. We can also handle multiple exceptions by declaring single catch-
block to a try-block, Which is introduced by Java7
     Version
   Syntax:
     try
      //Exception1
      //Exception2
     catch(Exception1 | Exception2 | ... ob)
      //msg
```

Fag:

Define try-with-resource?

=>try-with-resource statement introduced by Java7 version and in which try is declared with resource.

=>when we use try-with-resource statement the resources are closed automatically , which means no need to declare
 Finally-block
Syntax:
try(resource1;resource2;...)
{
 //statements
}

Ex:
try(Scanner s = new Scanner(System.in);)
{
 //statements
}

## Note:

=>catch-block is not mandatory block in try-with-resource statement.

## Ex:

```
package maccess;
import java.util.*;
@SuppressWarnings("serial")
public class DemoException3 extends Exception
      public DemoException3(String msg)
            super(msg);
      public static void main(String[] args)
     try(Scanner s = new Scanner(System.in);)
       try
              System.out.println("Enter the Marks of CoreJava:");
              int mk = s.nextInt();//Exception for NonInteger input
              if(mk<0 || mk>100)//Exception
                    DemoException3 ob = new DemoException3("Invalid Marks...");
                    throw ob;
              if(mk>=0 && mk<=34)//Exception
                    DemoException3 ob = new DemoException3("Failed in CoreJava...");
                    throw ob;
              System.out.println("You passed in CoreJava....");
              System.out.println("CoreJava Marks:"+mk);
       catch(InputMismatchException | DemoException3 ob)//Java7
              System.out.println(ob.getMessage());
              System.out.println(ob.toString());
     }//end of outer try
```

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Dt: 14/9/2023

## Faq: Define Enhanced try-with-resource statement? =>Enhanced try-with-resource statement introduced by Java9 version and in which the resources are declared Outside the try and the resource-ref-variables are declared with try. syntax: resource1; resource2; try(res1 ref var;res2 ref var;....) //statements Ex: Scanner s = new Scanner(System.in); try(s;) //statements Fag: Define java lang. NullPointerException? =>java.lang.NullPointerException is raised when we perform operations on NonPrimitive DataType Variables holding null-value. Program: DemoException4.java package maccess; import java.util.\*; public class DemoException4 public static String compName; public static void main(String[] args) Scanner s = **new** Scanner(System.**in**); try(s;) try System.out.println("CustName:"); String custName = s.nextLine();

System.out.println("Enter the PhoneNo:");

System.out.println("CustName:"+custName);

System.out.println("\*\*\*Details\*\*\*\*\*");

long phNo = s.nextLong();//Exception for NonIntegerValue

```
System.out.println("PhoneNo:"+phNo);
           int len = compName.length();
           System.out.println("CompanyName:"+compName);
           System.out.println("Characters in CompanyName:"+len);
       catch(InputMismatchException ime)
           System.out.println("Enter only Integer value....");
   }//end of Enhanced try-with-resource
}
*imp
PolyMorphism in Java:
 =>The Process in which programming Components having more than
one form is known as Polymorphism.
               - Many
    Poly
   Morphism - Forms
Types of PolyMorphism:
  =>PolyMorphism categorised into two types:
       1. Dynamic PolyMorphism
       2. Static PolyMorphism
1. Dynamic PolyMorphism:
  =>The PolyMorphism as execution stage is known as Dynamic
PolyMorphism or Runtime PolyMorphism.
     Ex:
     Method Overriding process
2. Static PolyMorphism:
  =>The PolyMorphism at compilation stage is known as Static
PolyMorphism or Compile Time PolyMorphism
   Ex:
```

Method Overloading process