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##

```
class EDemo1
{
	public static void main(String args[])
	{
			int a=100/0;
			System.out.println("  A   : "+a);
	}
}
```

##

```
class EDemo2
{
	public static void main(String args[])
	{
		try
		{
			int a=100/0;
			System.out.println("  A   : "+a);
		}
		catch(ArithmeticException ee)
		{
			System.out.println(" Can't Divide by zero ");
		}
	}
}
```

##

```
class EDemo3
{
	public static void main(String args[])
	{
		try
		{
			System.out.println("  Connection Opened ");
			int a=100/2;
			System.out.println("  A   : "+a);

			int b[]={10,20,30,40};
			System.out.println("  B   : "+b[2]);
			System.out.println("  Connection Closed ");
```

```
		}
		catch(ArithmeticException ee)
		{
			System.out.println(" Can't Divide by zero");
		}
		catch(ArrayIndexOutOfBoundsException ee)
		{
			System.out.println(" Array Index Out Of Range");
		}
	}
}
##########################################################################

class EDemo4
{
	public static void main(String args[])
	{
		try
		{
			System.out.println("  Connection Opened ");
			int a=100/2;
			System.out.println("  A   : "+a);

			int b[]={10,20,30,40};
			System.out.println("  B   : "+b[1]);

		}
		catch(ArithmeticException ee)
		{
			System.out.println(" Can't Divide by zero");
		}
		catch(ArrayIndexOutOfBoundsException ee)
		{
			System.out.println(" Array Index Out Of Range");
		}
		finally
		{
			System.out.println("  Connection Closed ");
			System.out.println("Finally Block");
		}
	}
}
```

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##

```
class EDemo04{
   public static void main(String args[]){
      try{
         System.out.println("  Connection Opened \n\n");
         int a=100/2;
         System.out.println("  A   : "+a);

         int b[]={10,20,30,40};
         System.out.println("  B   : "+b[11]);
         System.out.println(" \n\n Connection Closed ");
      }
      catch(Exception ex){

         if(ex instanceof ArithmeticException){
            System.out.println(" Can't Divide by zero");
         }

         if(ex instanceof ArrayIndexOutOfBoundsException){
            System.out.println(" Array Index Out Of Range");
         }
      }
   }
}
```

##

```
class AgeException extends Exception      //user defined Exception
{
        String getException()
        {
                return "Age Should not > 25";
        }
}

class Registration
{
        void validation(int x)throws AgeException
        {
```

```
		if(x>25)
		{
			throw new AgeException();
		}
		else
		{
			System.out.println(" Validation Success!");
		}
	}
}
class EDemo5
{
	public static void main(String args[])
	{

		Registration s1=new Registration();
		//s1.validation(21);

		try
		{
			s1.validation(14);
		}
		catch(AgeException ee)
		{
		String msg=ee.getException();

			System.out.println("------------------>  "+msg);
		}
	}
}
package exceptionhandling;

import java.util.Scanner;


class AgeException extends Exception
{
	String getException()
	{
		return "Age Should not > 25";
	}
}
```

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```
class Registration
{
	void validation(int x) throws AgeException
	{

		if(x>25)
		{
	    throw new AgeException();
		}
		else
		{
			System.out.println(" Validation Success!");
		}
	}
}
##########################################################################
#########
class EDemo6
{
	public static void main(String args[])
	{

		Registration s1 = new Registration();

	  //s1.validation(10);


		try
		{
	    Scanner s=new Scanner(System.in);
	    System.out.print(" Enter the Value    ");
	    int x = s.nextInt();

			s1.validation(x);
		}
		catch(Exception ee)
		{
	    if(ee instanceof AgeException){
		AgeException age=(AgeException)ee;
		String msg=age.getException();
		System.out.println("------------------>  "+msg);
```

```
                }



                }
        }
}
```

```
##########################################################################
#########
import java.io.*;
class Sample
{
        Sample(int x)throws FileNotFoundException
        {
                if(x<20)
                {

                        throw new FileNotFoundException();
                }
                else
                {
                        System.out.println(" Validation Success!");
                }
        }
}
class EDemo6
{
        public static void main(String args[])
        {
                //new Sample(31);

                try
                {
                        new Sample(22);
                }
                catch(FileNotFoundException ee)
                {
                        System.out.println("Value should not < 20");
                }
```

```
	}
}

##########################################################################
#########
import java.io.*;
class EDemo7
{
	public static void main(String args[])
	{

			FileReader fr=new FileReader("EDemo19.java");
	}
}
##########################################################################
#########
import java.io.*;
class EDemo8
{
	public static void main(String args[])
	{
		try
		{
			FileReader fr=new FileReader("EDemo19.java");
		System.out.println("Success!");
		}
		catch(FileNotFoundException ee)
		{
			System.out.println("File is not available");
		}
	}
}
##########################################################################
#########
class Sample1
{
	void test(int x)throws ArithmeticException
	{
		if(x<20)
		{
			ArithmeticException ob=new ArithmeticException();
			throw ob;
```

```
		}
		else
		{
			System.out.println(" Validation Success!");
		}
	}
}
class EDemo9
{
	public static void main(String args[])
	{
		Sample1 s1=new Sample1();
		s1.test(10);
	}
}
##########################################################################
#########
class Sample2
{
	void test(int x)throws ArithmeticException
	{
		if(x<20)
		{
			ArithmeticException ob=new ArithmeticException();
			throw ob;
		}
		else
		{
			System.out.println(" Validation Success!");
		}
	}
}
class EDemo10
{
	public static void main(String args[])
	{
		try
		{
		Sample2 s1=new Sample2();
		s1.test(10);
		}
		catch(ArithmeticException ee)
```

```
                {
                        System.out.println("Value should not < 20");
                }

        }
}
##########################################################################
#########
import java.util.Scanner;

class AssertionExample
{
   public static void main( String args[] )
   {

      Scanner input= new Scanner(System.in);
      System.out.print("Enter ur age ");

      int value = input.nextInt();

      assert value>=18:" Not valid";

      System.out.println("value is "+value);
   }
}


// javac AssertionExample.java

// java -ea AssertionExample
```

==========

JavaBean

```
package datas;

public class StudentDetails {
```

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```
	private int rno;
	private String name;
	private String city;

	public int getRno() {
		return rno;
	}

	public void setRno(int rno) {
		this.rno = rno;
	}

	public String getName() {
		return name;
	}
	public void setName(String name) {
		this.name = name;
	}

	public String getCity() {
		return city;
	}

	public void setCity(String city) {
		this.city = city;
	}
}
```