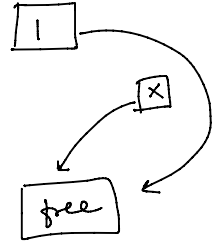
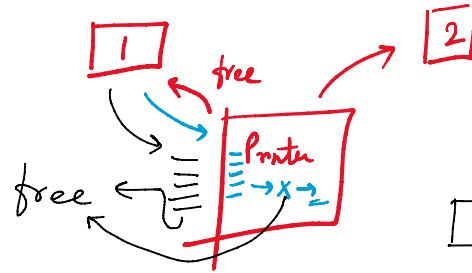
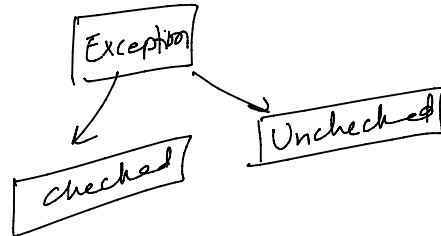


# Exception Handling

21 October 2022

07:56 PM

try  
catch  
finally  
throw  
throws



## Multiple Try - catch

```
import java.io.*;
class Main
{
    public static void main(String z[])throws IOException
    {
        int a,b,c=0;
        BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
        System.out.println("Enter 2 numbers");
        try
        {
            a=Integer.parseInt(br.readLine());
            b=Integer.parseInt(br.readLine());
            c=a/b;
            System.out.println("Division is "+c);
        }
        catch(ArithmeticException e)
        {
            System.out.println("Your are not supposed to enter 0 as deno");
        }
        catch(NumberFormatException e)
        {
            System.out.println("Pls Enter a number");
        }
        catch(Exception e)
        {
            System.out.println(e);
        }
    }
}
```

## Nested try catch

```
import java.io.*;
class Main
```

```

{
    public static void main(String z[]) throws IOException
    {
        int a,b,c=0;
        BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
        System.out.println("Enter 2 numbers");
        try
        {
            a=Integer.parseInt(br.readLine());
            b=Integer.parseInt(br.readLine());
            try{
                c=a/b;
                System.out.println("Division is "+c);
            }
            catch(ArithmeticException e)
            {
                System.out.println("You are not supposed to enter 0 as deno");
            }
        }
        catch(NumberFormatException e)
        {
            System.out.println("Pls Enter a number not a string");
        }
    }
}

```

*throw keyword*

```

import java.util.*;
class Main
{
    public static void main(String z[])
    {
        int age;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter your age numbers");
        try
        {
            age=s.nextInt();
            if(age<18)
            {
                throw new NumberFormatException();
            }
            System.out.println(" You are an eligible voter");
        }
        catch(NumberFormatException e)
        {
            System.out.println("You cannot vote");
        }
    }
}

```

*throws keyword*

```

import java.io.IOException;
class Testthrows1{
    void m()throws IOException{
        throw new IOException("device error");//checked exception
    }
    void n()throws IOException{
        m();
    }
    void p(){
        try{
            n();
        }catch(Exception e){System.out.println("exception handled");}
    }
    public static void main(String args[]){
        Testthrows1 obj=new Testthrows1();
        obj.p();
        System.out.println("normal flow...");
    }
}

```

User defined Exception.

```

import java.util.*;
class Main
{
    public static void main(String z[])
    {
        int age;
        Scanner s=new Scanner(System.in);
        System.out.println("Enter your age numbers");
        try
        {
            age=s.nextInt();
            if(age<18)
            {
                throw new PratikException("u r under age");
            }
            System.out.println(" You are an eligible voter");
        }
        catch(PratikException e)
        {
            System.out.println("You cannot vote");
        }
    }
}
class PratikException extends Exception
{
    PratikException(String s)
    {
        System.out.println(s);
    }
}

```