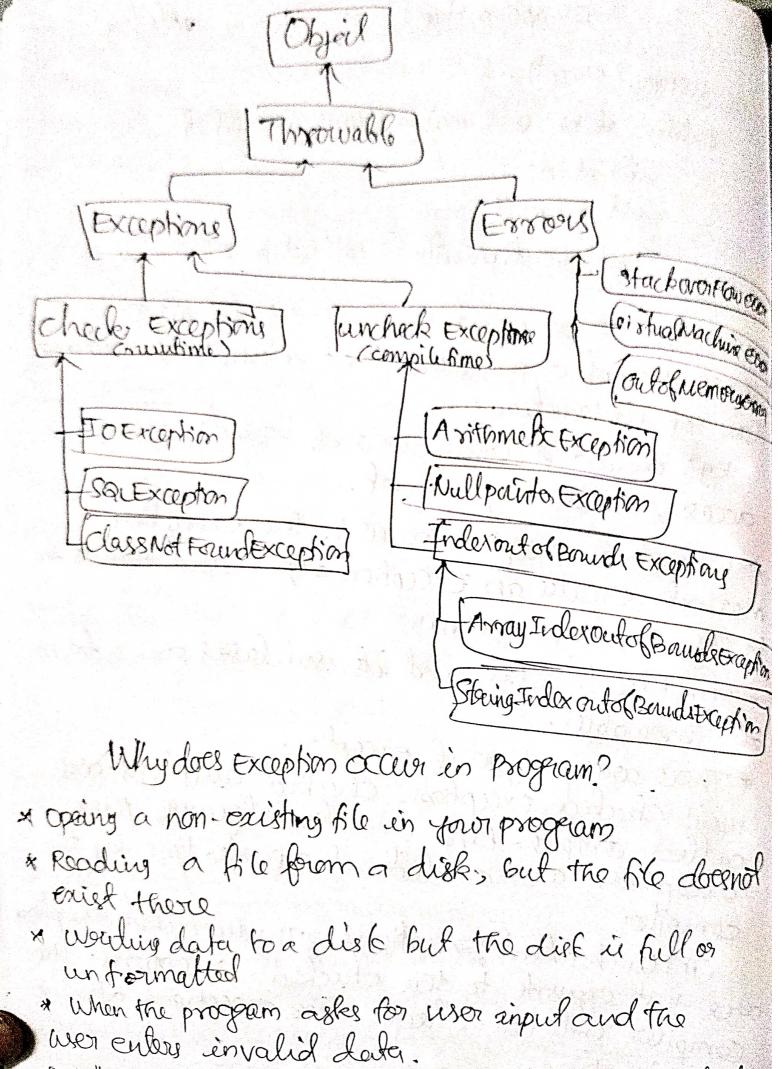
Exception Handling: 25/6/24 class without exception of public static void main (Stewing congety) of ent d=0; uit a = 42/d; System.out. peutle (" Will not be peinted!"); * exception is an event that occurs during the execution of a program that disrupts the normal flow of eigeteuckons: Eg: Hard disk crash, out of bounds array access, Divide by zero et. * when an exception occurs, the executing method collater an Exception object and hands in to the seuntime system * The Exception class and its subclasses are a four Those are 2 types of exception:

(i) Checked Exceptions: Checked exceptions are of Throwables. called compile-time occeptions because these exceptimes are checked at compile-time by the (ii) unchecked Exceptions! The unchecked exceptions compiler one just opposite to the checked exceptions. The Compiler will not check these exceptions at ompile time.



* When a user attempts to clivide an integer value to, an exception occurs.

& when a clouda streams is in an invalid formal.

programmer and we should not tous to catch x. Instances of Error are intornal oors in Igra suntime environment. These our moto rate and usually fatal and : not supposed to be hardled by a program.

, An ever indicates a servious problem that a reasonable application should not truy to catch * instances of everor are thrown, when the Java Vistual machine faces some memory leakage problem, insufficient memory problem, dynanic linking Rilwe or whensome other hard" failure in the visitual machine occeurs.

- Regwords for harding Exceptions.

tous: This mooks the shoot of a block associated with a set of exception harollers. catch: The control moves how if an exceptions is genoated in the Finally: This is called invespertive of whether an exception has occurred or not. throws: This describes the exceptions which to writed hu a mothod.

throw: This raises an exception to the first available handler in the call stack, unwind the stack who the stack who the

Tory-catch!

* A beginsond "tray" is a block of code on statements that might throw an except thate why a boy block is also known as except pater why a boy block is also known as exception generated block.

The sava code that may generate an exception during the execution of programment be placed within a few 6 lock.

A keyword "catch" is a 6lock of code that handles the ocception thrown by the tous block. Thatis why it is also known as exception handler block.

e A catch block that catches an exception, must be followed by tous thock that generales an exception.

Syntax:

For plack of code; 11 Jenerates our exception

The plack of code; 11 Jenerates our exception

The code for be executed when an exception is

Thosown

tory block a block of code that exception object Causes an exception creation Throws exception J Could Block A block of code that exception handles Catches and hardles / Ane ocception thrown by few block es d'espira, l'autrinoires la propriétion de 1943 - to 12/2/2013 o Andros Regul exception occurred inside templock Statement 1; Statement 2; Afler complete antrold Statement 3; excention of, derryon atch b(ock, cautou) is passed to never goes back for catch block > catch (exception_class von) the oxecution of remaining and sol goes 3 statement 4; Code within they block execution > exatement 5; in the program.

Thy-Mulliple Catch

*In sava, a snigle fory block can have
multiple catch blocks.

* When skitement in a single try block
generate multiple exceptions, we require
multiple catch blocks to handle different
hyper of exceptions.

* Each catch block is capable of catching
a different exception. That is, each catch
block must contain a different exception
handler.