Assignment-04 CSA0992Programming In JAVA for Freshers

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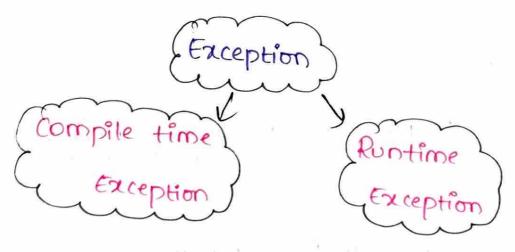
Exception Handling:

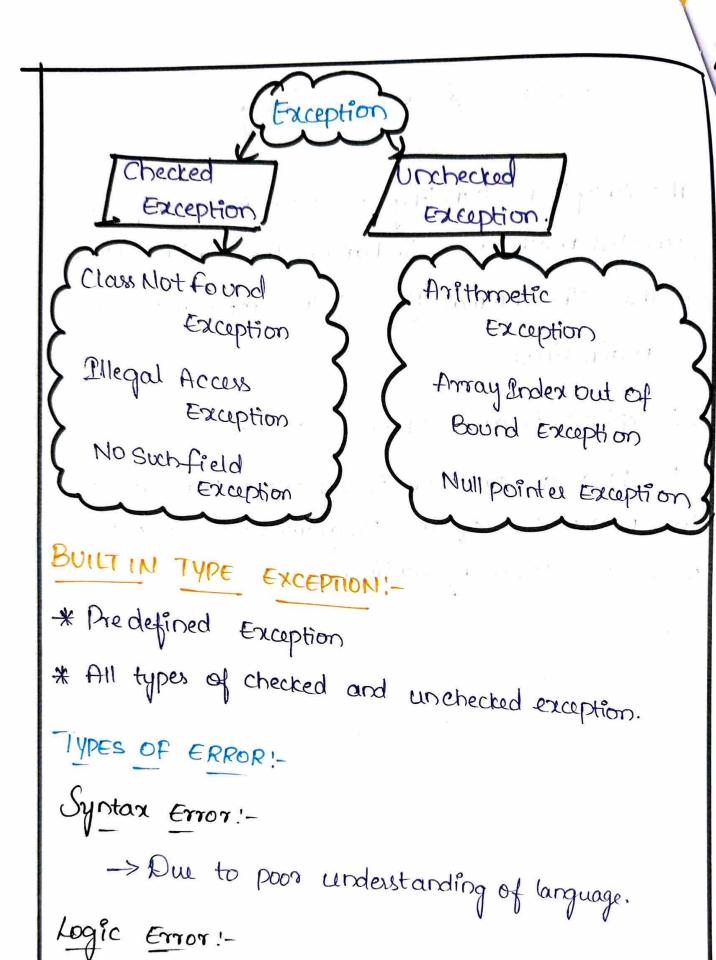
*The exception Handling in Java is one of the powerful mechanism to handle the runtime errors so that the normal flow of the application can be maintained.

* Exception is an abnormal condition.

* In Java, an exception is an event that disrupts the normal flow of the program. It is an object which is thrown at runtime.

* Exception Handling is a mechanism to handle runtime errors such as Class NotFound Exception, 10 Exception, SQLException, Remote Exception, etc.





-> Poor understanding of problem.

JAVA EXCEPTION KEYWORDS:-

TRY:-

- *The "Try" keyword is used to specify a block where we should place an exception code.
- * It means we can't use try block alone.
- * The try block must be followed by either catch of finally

Catch:-

* It is used to handle the exception.

finally:-

*The "finally" block is used to excecute the necessary code of the program.

Throw:-

*The "throw" keyword is used to throw an exception

Throws !-

- * The "throws" keyword is used to declare exceptions.
- *It specifies there are may occur an exception in the method.
- * It doesn't throw an exception.
- # It is always used with method signature.

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General Form of an exception-handling block
 toy &
   block of code to monitor for errors
Catch (ExceptionType 1 exob) of
 11 exception handles for exception Type 1
catch (ExceptionType 2 exob) {
 11 exception handles for exception type 2
finally &
 Il block of code to be executed after try block ends
 3
Example!-
Public class Java Exception of
  Public static void main (string [ Jargs) [
 try &
    int data =100/0;
 catch (arithmetic Exception e)
  System. out. println (e);
```

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3 system. out. Println ("rest of the code ... ");
Example - 2:-
import java · util · Random;
 class Handle Error &
   Public Static void main (String args [])
      int a=0 , b=0, c=0;
      Random T= new Random();
      for (int i=0; i < 32000$ 1++)
          p= 1. DextInt ();
           C = 7. DestInt();
           a = 12345/ (blc);
      coutch (Anithmetic Exception e)
        System. Out. Println ("Division by Xero");
         a = 0;
     System. out. Println ("a: "+a);
```

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Multiple Catch Clauses Example
class Multiple Catches {
  Public Static void main (string args[]) {
 try {
    fint a = args. length;
   System. out · Println ("a = "ta);
    int b=42/a
    int c[] = {13;
     C[42]:99;
   Z
  Catch (Arithmetic Exception e) 9
    System. out. Printin ("Divide by 0:" +e);
 Catch (Array Index Out of BoundException e)
   System. out. printin ("Array index oob: 11+e);
System. Out. println ("After try/catch blocks.");
 3
```