## Exception Handling-

\* Exception is an evror event that can happen during the execution of a program and disrupt its normal flow. Exceptions in Java con wise from different kind of situations such as worong duta entered by usor, HIW failure, network onnection failure, Database server down etc. · Java provide a robust and object oriented 12 way to handle exception scenarios, known as Java Exception Handling. 13 6 Whenever an error occurs, it creates an exception object. The exception object contains a lot of clebugging info such as method hierarchy, line number, and type of exception of etc. The normal flow of the program talk of the program talk handle the raised exception. when the exception occurs in a neethod, the process of creating the exception object & handling It over to runtime environment is atted throwing the exception

Catching the Exception -Once runhime receives the exception object, it a hies to find the handler for the exception. Exception handler is the block of code that an process the exception object. oppropriate hundler will more from exception object is passed to it. The handler is said to be catching the exception. \* finally block-· If written, will execute at any · Written at the end of try-catch block.

Object Throwable Enror Exception > Thread Death -> Runhimo Exception -> Virtual Machine EuroV > LOEVYOY 7 LO Exception out of Memory 6 , SQL Exception Error Stack Overflow - Broken Burrier 14 Error Exception Runhime Exception 7 NullPointer 16 7 Arithmehic. Black Pen - Unchecked | Runhme Exception Blue Pen - Checked / Compile Time Exception

throw Reyword-Object is required with it. · Exuption exampleboolean b= hui; (b) 2 Hurow new Arithmetic Exception ( The throw keyword is used to explicitly throw an exception from a method or any black of water hrous Remoorded in the signature of method 14 to indicate that this method might throw the exception. The coiller to these has to hundle the exception my-catch block.

18

for examplefun2(); cotch (Exuption e) { System. out prin Kn (e.get Message ()); static void fun 20 throws Arithmetic Exception? boolean b= hue; 12 13 throw new Exception ("Fault"); block -Exception/Error block cotch ( < Type of Exception Object >) { 18