

## CT 2

Course Code: CSE 331

Course Title: Advanced Programming

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Soln: A jab java exception is an object that describes an exceptional (that is, ennon) condition that has occowned in a piece Of code. Some various exceptional conditions are given below:

1) Anithmatic exception: If we have a null value in any variable, Penforming any operation on the variable throw's a The Le Reinber I was

Null Pointer Exception.

System. Out. println (s. length ()); // Null pointer exception. Ex: String s=null;

# Calch the exception, inform user of the attempt to divide by 2000.

2) Annay Index Out of bounds exception: If we inderit any value in the wrong index, it would nesult in Annay Index Out of Bounds -Exception administration of a manufact of the world of the with the

int at = new int [5]; a [10] = 50; // Annay Index Out of Bounds Exception.

# For tisthis user have to catch the exception. The Print an ennon message telling the user what index was being neferenced inconnectly and exit the program in a controlled manner.

3) NumbertonmatException Occours: The wrong formating Ob any value may occur. NumbertonmatException. Suppose a string value that has characters, converting this variable to into digit will occur. NumbertonmatException. Ex: String = "abo"; inti=Integer. Por neIntis); the catch the exception and either cast it to the proper type if that can be determined. On print an error message indicating what the ba number format problem was and exit the program.

H) Invalid Input: catch the exception and inform the user that the input cannot be convented to the propertype. It do exception handling in managed via five keywonds: try, & down throws and finally. Briefly, how they work. Catch, throw, throws and finally. Briefly, how they work. Program statements that one want to monitor for exceptions are contained within a try block. If an exception occours within the try block, it is thrown. Programmers code can catch this exception (using catch) and hand the it in pome rational manner.

There are some build in exceptions also:

- 1) class not found exception
- 2) Inturrupted exception
- 3) Runtime exception etc.