A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (A)

(Re-Accredited with 'B' Grade by NAAC) (Affiliated to Adikavi Nannaya University) Jagannaickpur, Kakinada.

DEPARTMENT OF COMPUTER SCIENCE



GUEST LECTURE

2020-2021

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (A)

JAGANNAICKPUR, KAKINADA



DEPARTMENT OF COMPUTER SCIENCE

2020 - 2021

GUEST LECTURE

Ву

Smt. E.Jyothi Kiranmayi M.Tech., Lecturer in Computer Science, S.V.D.Govt. Degree College(A), Nidadavole.

Date : 03-02-2021

Topic : Exception Handling

Organized by

N.NAGA SUBRAHMANYESWARI, LECTURER IN COMPUTER SCIENCE

G.SATYA SUNEETHA, LECTURER IN COMPUTER APPLICATIONS

A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN (A), KAKINADA

DEPARTMENT OF COMPUTER SCIENCE Activity Register 2019-2020

Date	03/02/2021		
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.)	Department of Computer Science		
Nature of Activity (Seminar/Workshop/Extn. Lecture etc.,)	Guest Lecture		
Title of the Activity	Exception Handling		
Name of the Department/Committee	Computer Science		
Details of Resource Persons (Name , Designation etc.,)	Smt. E.Jyothi Kiranmayi M.Tech., Lecturer in Computer Science, S.V.D.Govt. Degree College(W), Nidadavole.		
No.of students participated	42		
Brief Report on the activity	To enable the students to identify the significance of Exception Handling in Object Oriented Programming.		
Name of the Lecturers who Planned & conducted the activity	N.Naga Subrahmanyeswari, Lecturer in Computer Science G.Satya Suneetha, Lecturer in Computer Applications		
Signature of the Dept.In-Charge/ Convener of the Committee	N.N.S. ESWARL BICHARGE DEPT OF COMPLITER SCIENCE ADGRITEGREE CALEGE MINUTICHCALS KAKINADA		
Signature of the Principal	H. Suvarchele.		
Remarks	A.S.D.GOVT.DEGREE COLLEGE		

A.S.D.GOVT.DEGREE COLLEGE FOR WOMEN (A) KAKINADA DEPARTMENT OF COMPUTER SCIENCE

INVITATION



The Department of Computer Science wishes to arrange A Guest Lecture on 03-02-2021 at 11.00 A.M. through Online mode

Subject: Object Oriented Programming using Java

Topic: Exception Handling

BУ

Smt. E.Jyothi Kiranmayi M.Tech., Lecturer in Computer Science, S.V.D.Govt. Degree College(W), Nidadavole.

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H. Suvarchele.

A.S.D.GOVT.DEGREE COLLEGE

Principal

In-Charge of the Department

A.S.D.GOVT.DEGREE COLLEGE FOR WOMEN (A), KAKINADA

DEPARTMENT OF COMPUTER SCIENCE

GUEST LECTURE



NAME OF THE GUEST	: Smt. E.Jyothi Kiranmayi M.Tech., Lecturer in Computer Science, S.V.D.Govt. Degree College(W), Nidadavole.
ΤΟΡΙΟ	: Exception Handling
DATE	: 03-02-2021
TIME	: 11.00 AM
VENUE	: NB-3 through Online Mode using Zoom



IN-CHARGE OF THE DEPARTMENT

A.S.D.GOVT.DEGREE COLLEGE FOR WOMEN(A), KAKINADA DEPARTMENTS OF COMPUTER SCIENCE

GUEST LECTURE

TOPIC : Exception Handling

DATE: 03-02-2021

VENUE: NB-3

TIME: 11:00 AM

S.No	Regd. No.	Name of the Students	Class	Signature
1.	1932001	B.Bhargani	GBSC (mpcs)	B. Bhargani
2.	1932002	K. Vimala Devi	The second	K. Vimala.
3.	1932003	K. Naga Prasanna	TI BSC (MPCS)	K. Noga Porasan
4.	1932004	MD. Roshma Begum	I BSC(MPCS)	MD Roohma B
5.	1932005	M. DivyaRoora	IBSC (MPCS)	M. DiverRoota
6.	1932006	M. Vara lakshmi	I BSC (MPCS)	Miambersh .
7.	1932:007	R · Salaya Levi	I BSC (MPCS)	R. Sabyeveni
8.	1932-008	A Pratyusha	JE BSC(MPCS)	A Pratinisha
9.	1932009	A. sireesha	I BSC(MPCS)	A. sireesha
10.	1932010	A. Grayativi	ILBRC (mpcs)	A Grayation .
11.	1932011	B. Komale manikante	I BSC [mpcs]	B.K. manikar
12.	1932012	ch. Dunga Ramyo	BBSC CMPCS)	eh.D. Ramya
13.	1939013	D. Maurika	B. B.SC(Mpcs)	Dimaurita
14.	1932014	Gr. Praneetha	I B.S. (MIPCS	
15.	1932015.	G. sunckha.	T BSC [HPCS]	G. sumerha.
16.	1932016	Gi. Lakshmi Deepika	Il BSC (MPCS)	G.J. Deefito
17.	1938017	J.J. Mahalakuhmi	Construction of the second	Juahalak
18.	1932018	K stavani maha laxmi		K-STAVAN
19.	1932019	K. Bhavani	I BASC (MPCS)	
20.	1932020	k. Divya Darshini	ILBIC (MPCS)	1. Divya

S.No	Regd. No.	Name of the Students	Class	Signature
21.	1932021	K. Veena pawan;	TBSC-MPC	K. Verna Pour
22.	1932022	K. Baladeepika	IL esc THPCS]	H. Bathdyska
23.	1932023	k-Romya	IL-BSC-MPCS	k.Ramya
24.	1932024	O. Kauppi	2-BSC-MPCS	O. Kauni
25.	1932025	O.Lavianya	II-BSC-mpcs	0. Lavanya
26.	1932026		B BSC- HPCS	P- Namo
27.	192,20,27	P. Narya P. Tenunani	TE BSC-MACS	P. Tekasusini
28.	932028	Sidivya	TI B.SC - MPCS	SiDivya
29,	1932029	S. Niharilia	TIBAL MPU	S. Nihorika.
30.	1932030	T. Sircesha	D.BSC-MPCS	T. Shreesha
31.	1923001		II.B.com-cA	Soulance
32.	1923002	Sizujananjali R. Ramya	II.B.com C.A	R. Panya
33.	923009	K. parimala	E. B.COMCA	k parimala
34.	1923004		I.B.COM-C.A	
35.	192 300 5	6 prontes Cateshoni		6 Arantha lallo
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37.	1923007		T.B.COM-C.A	nallesunori
38.	1923008	K. Rhorathi	II-B-com-cA	K. Bhorathe
39.	1923009		1. B. com -CA	Milaya
40.	1923010	P.S. Marenika	T.B.COM-C.A	P.S. marila
41.	1923011	P. Derimounika	IT.B.Com - C.A	P.D. Mounific
42.	1923012	B.Nookaratnam	IB. com - CIA	B. Novkanatram
43.	1923013	B. Gematter	I Acom - C.A	A C. A.
44.	1923014	0	B.Com - C.A	B. Jashna
45.	1923015	ch laksbri stroganya		
46.	1923016	D. Supetha Devi	I.B.com_ (A	ch. 1. sonjany
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A.S.D.GOVT. DEGREE COLLEGE FOR WOMEN(A) KAKINADA

DEPARTMENT OF COMPUTER SCIENCE

GUEST LECTURE

A Guest Lecture is conducted for the Students of II B.Sc (M.P.Cs) and II B.Com (C.A.)

Name of the Guest	:	Smt. E.Jyothi Kiranmayi M.Tech.,
		Lecturer in Computer Science,
		S.V.D.Govt. Degree College(W),
		Nidadavole.

TOPIC	VENUE	DATE	TIME	SIGNATURE OF THE GUEST
Exception Handling	NB-3 (Online Mode)	03-02-2021	11 AM	Hirennergi

Signatures of the Lecturers Attended:

1. N.N.S. Eswaei 2. Scinethe

H. Suvarchele.

PRINCIPAL A.S.D.GOVT.DEGREE COLLEGE AUTONOMOUS KAKINADA

Signature of the Principal





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GOVERNMENT OF ANDHRA PRADESH COMMISSIONERATE OF COLLEGIATE EDUCATION



EXCEPTION HANDLING OBJECT ORIENTED PROGRAMMING USING JAVA COMPUTER SCIENCE / APPLICATIONS

E. Jyothi Kiranmayi M.Tech

S.V.D Govt. Degree College (W), Nidadavole Email. Id : jkiranmayi1@gmail.com

Learn more at http://ccelms.ap.gov.in

Exception Handling

Learning Objectives

- Exception
- Keywords used in Exception Handling
- Try / catch block
- Finally
- Throw keyword
- Throws keyword

Exceptions

An exception is a run time error that interrupts the normal flow of a program

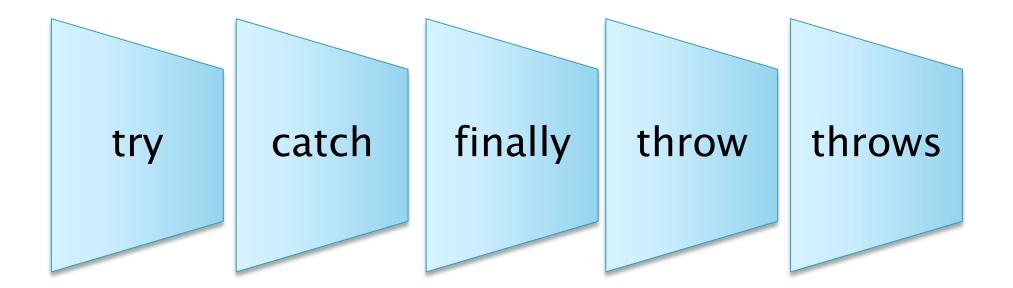
• Exception is an unusual behavior/event of a program that occurs during the execution of a program

• Whenever exception occurs Java run time system creates an exception object and throws it to the method that causes exception

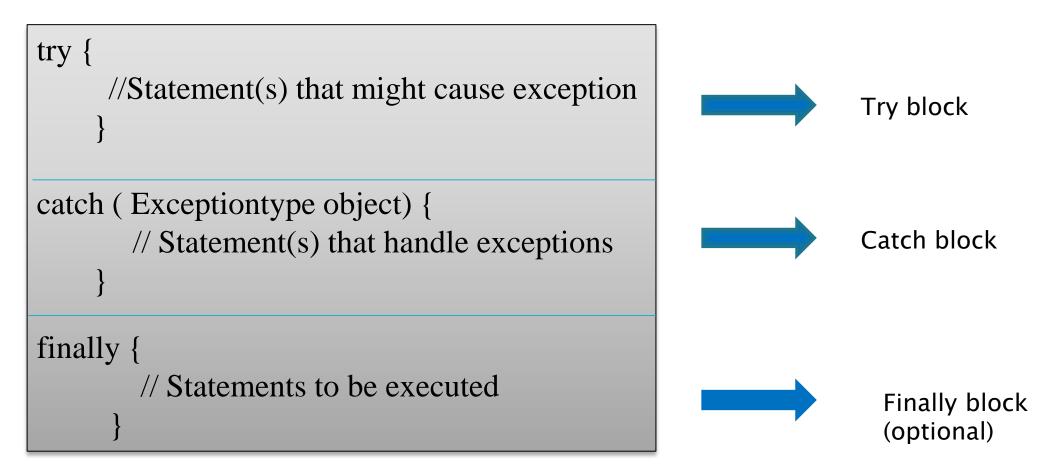
• The thrown exception object must be caught and handled properly otherwise Java interpreter will display an error message and terminates the program

Exception Handling Mechanism

> Java's Exception handling mechanism uses five keywords to detect and handle exceptions



Syntax for Simple try/catch Block



try/catch Blocks

- try block contains the statements that are expected to raise an exception
- catch block contains the statements that handle the exceptions
- catch block always follow try block i.e. catch block doesn't exist if there is no try block
- try block exist even if there is no catch block

finally Block

• The statements in finally block will get executed only after the execution of try/catch block and before the code that follows try/catch block

finally block must be associated with try block i.e. finally block cannot be exist without try block

Finally block executes irrespective of whether exception has occurred or not

• Finally block is used for clean up activities like closing files, closing connections etc.

Example for try/ catch block

throw Keyword

throw keyword is used to throw an exception explicitly

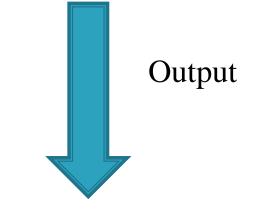
• The general form of throw is

throw *ThrowableInstance*

where, *ThrowableInstance* must be an object of type Throwable or a subclass of Throwable

Example for throw keyword

```
class ThrowDemo
        static void testProc() {
                 try {
                   throw new NullPointerException("Demo");
                  } catch(NullPointerException e) {
           System.out.println("Exception caught inside tesproc");
                   throw e;
public static void main(String args[]) {
        try {
         testProc();
         } catch(NullPointerException e) {
         System.out.println(" Recaught in main: " +e);
```



Exception caught inside tesproc Recaught in main: java.lang.NullPointerException: Demo

throws Keyword

throws keyword is used to list the exceptions that might thrown by a method

```
    General form
```

```
Type method_name(parameter_list) throws exception_list
{
    // body of method
}
```

where exception_list is a comma-separated list of exceptions that a method might throw

Example public void myMethod { try //statements that might cause exceptions catch(ArithmeticException e) { // Exception handling statements catch(ArrayIndexOutofBoundsException e) { // Exception handling statements

Example for throws

public void myMethod throws ArithmeticException, ArrayIndexOutofBoundsException {
 // statements that might cause exceptions

```
public static void main(String args[]) {
    try {
        myMethod();
        } catch(ArithmeticException e){
            // Exception handling statements
        } catch(ArrayIndexOutofBoundsException e){
            // Exception handling statements
```

summary

- Java's exception handling mechanism uses five keywords to handle the exceptions : try, catch, finally, throw, throws
- try block contains the statements that causes exceptions
- catch block contains the statements that handle the exceptions
- finally block is an optional block that follows try /catch block , used to perform clean up activities
- throw is used to throw exceptions explicitly

throws is used to list the exceptions thrown by the method

References

Text Books

- Herbert Schildt, Java : The Complete Reference, 7th Edition, TMH, 2006
- E. Balaguru Swamy, Programming with Java, A Primer, 3e, Tata McGraw Hill

Web Links

https://nptel.ac.in/courses/106/105/106105191/ - Lectures 23 -25



