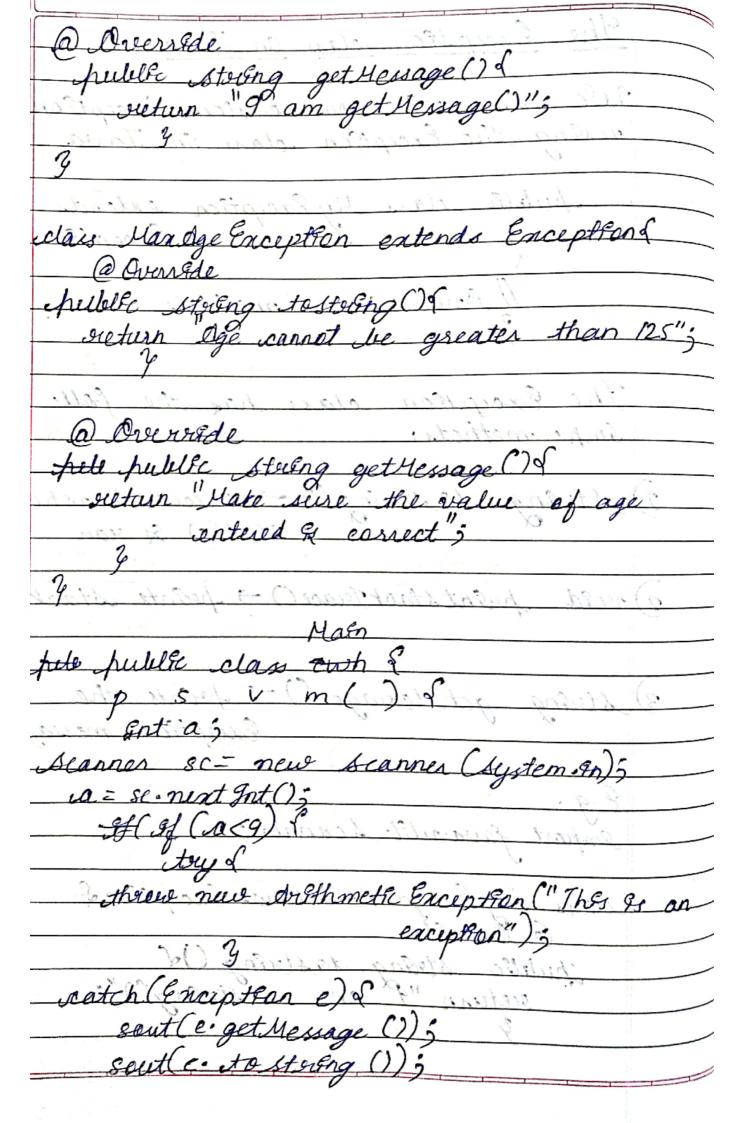
= -1 124	Date
, , ,	Page
	Eurors J. Enceptron In Java
	A STATE OF THE STATE OF
	H. No matter how smart we are servers
	are our constant somfarssons- With
	la cotter de la cotter a la dendena
4	hander we keep getting ments in grang
	I correcting them. There are 3 Types of
_	practice, we keep getting better at finding of correcting them. There are 3 types of errors in Java.
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1)	Syntan Erron
	Later that the state of the sta
2	Togral Errors
9	Organia Druns
$\overline{2}$	7 10 10 10 10 10
3/	Purtone errors-also called Enceptiona.
	The same of the sa
	Syntax Errors
	Syntax Errors When complex finds something was wrong
	when complex finds something we wrong with our program, It throws a syntax error.
	098DH -
	ent a = a // 100 100
	Sent $a=9$ // No semi-colon, segentax error
	West 2)
	d=4 // Varfalle not declared
	DAGGARAGE
	occurs when a program complex of nound
	occurs when a program complex of round
	but does to the verona thing.
	Just does to the wrong thing. -> Message delivered verongly -> Wrong time of shats suring displayed
	-> Werong time at chate looke dione
	y suren graped
	In correct nod inortel
	Incorrect nedsnerses

Krinteme Errors Java may sometimes cell sin error while the for program is sunning. These are also called exceptional These are encountered due to & cercumstances like lead supput and (or) sesource constraints-E.g. user supplies "s"+8 to a program which adds 2 numbers syntax errors & logseal errors are encountered topes users. Exceptions in Java An exception is a event to that occurs when a program is executed dissupting the normal flow of entructions. There are 2 types of enuplions in Sherked Exception - Semptle time except () and with Unchecked Exception - Run- time exceptions Commonles Occurring En Exceptions Following are the few commonly occi exceptions in Java:

Null pointer exception Array Index Out Of Bound Exception Illegal Argument Exception Number Format Exception tour satch block on Jowa In Java, on exceptions in managed using tory-catch belock catch (Ency Hon e) d I code sof exception Hand ling specifie exceptions In Java, we can handle specific exceptions ley typing multiple catch blocks.

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1 Code
4
watch (IOE
catch (TO Exception e) 1 Handles all IO
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 code exceptions
catch (dr. Ghmette Exception e)
9 // Standles all unisimon
1 Code exceptions
3
catch (Exception e)&
catch (Exception e) { Il code II Handles all other
y exceptions
Site of other 1
Nested Joy- Catch block:
Joen Ch Day Such Such
toured because of all and
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d toy (Stands
V
catch (Ex. e) c
Hand Mag specific exceptions
An Java our com monther specific one
her trovers multifully outen placed.
cutch (En. e) &
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	The Exception class en Java
	A Character on Contract Coldinate
	We can verite our custom Exceptions
	We can verste our custom Exceptions rising the Exception class in Java
	d surgines was in
	helelse dan Huganotson extends
2	heilete dass My Exception extends Exception
	11 Pries - agdden methods
125"	11 Over- gedden methods
	The Exercise place has the follow.
	Emh: methods:
	Less holder : Husing cothering Of
ĵ	The Exciption class has the foll. Simpo methods: Strong to Strong () -> enecuted when sout(e) It you
9	a sout(e) si you
	i i i i i i i i i i i i i i i i i i i
2	rold prientstack Juace () -> peonts stack Trace
	ASNM
	The state of the many many and the
3	Studing get Message () - points the
	Exception message
	Reagness SCI mous Scanness (Sectionals)
	E a
	Import fava-rutil. Scanner;
	11113
- M. T.	class My Exception entends Exception &
	@ Duerrede
	pulle strong to storing () &
	pulebe strong to strong () « outurn "g" and to strong()";
	2 CO get De get De say &
G-7	confire to Heron (1) is



e. print stack Juace ();
sout ("Jineshed"); Sout ("Yes Feneshed"); Authi wast colonlate (sof as sall se) Es Thes es an exception

Gava-lang. ArthmeticException: Thes es an exception At Masn: masn (Main-jewa=33)

Hensihed

Yes Isneshed Throw Keyword The throw keyword of rused to throw an exception explicitly by the programmes. Syntan: Organichter grouts sidely therow new My Encepteon ("Exception throw"); Throws Keyword The Java throws keyword of used to declare an exception. This grees an information to the programmer that there might we an

	The state of the s
	exception in all leetter to be prepared
	exception so It's better to be prepared with a toy catch block!
,	with a day duck court
-	Syntax:
	Byntax
	public vold calculate (ent a, ent le) throws TO Exception
	TO Enception
	J. Charge
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	The state of the s
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	E.g
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	Expertant
	class Vegative Radius Enception entends Exception (
	pulle strong to tostering () L outurn "Radies cannot be negative?
	deturn "Radgers cannot le nogative":
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	a Averigae
	hulebe Storng get Mensage Of
253	steturn "Rodius cannot le negative";
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2-4	the trans becomes becaused in sixty

	that hills along of
	Acte pulle class Magn of
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	Degative Radius Exception &
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	there mens Wearther Rodins Exception ();
	Sof (40) d therew new Negative Rodins Exception ();
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_	double seesult: Math. PI * r * r 5
	veturn siesutt
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	peter putelle statie ent droade (ent a, ent le).
	fute public static ent droide (ent a, ent le). throws driffmetic Enceptions
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	D C 11 m () C
	PSVMC
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	try of
_	and the contraction of the special of
_ =	sout "Result of Drv." + c);
:	sout "Result of Dro. "+ c)
	601 = A R 60
	double ar= area (6);
	sout ("Area = " + ar);
	sun (river - 1 cot)
	24
$-\parallel$	1 10 10 10 10 10 10 10 10 10 10 10 10 10
$-\parallel$	catch (Exception e)
-	satch (Enception e) & ("Enception");
	9
	3 2 2
	7 7

