Sggst mytelling

while with any person at the party of the class sees f

public static void main () f

S.O.P ("Inside merin");

SGGS Sggst = NOW SGGG();

to skystle giver and home to the long to make

S.O.P (" Default constructor () returns!" + sggs.);

S.O.P (" closs's toSteling () returns: "

+ sggst mytoSteing ());

public Steing mytosteing () {

neturns "Mytosteing" + get class() - get Nome()

+@+Integer . toHex Steing (hour Gode ());

}

change

5.0. P ("Default cons () returns : " eggs);

S. OIP ("class's tosteing() neturns! aggst tosteing (1);

public String to String () {

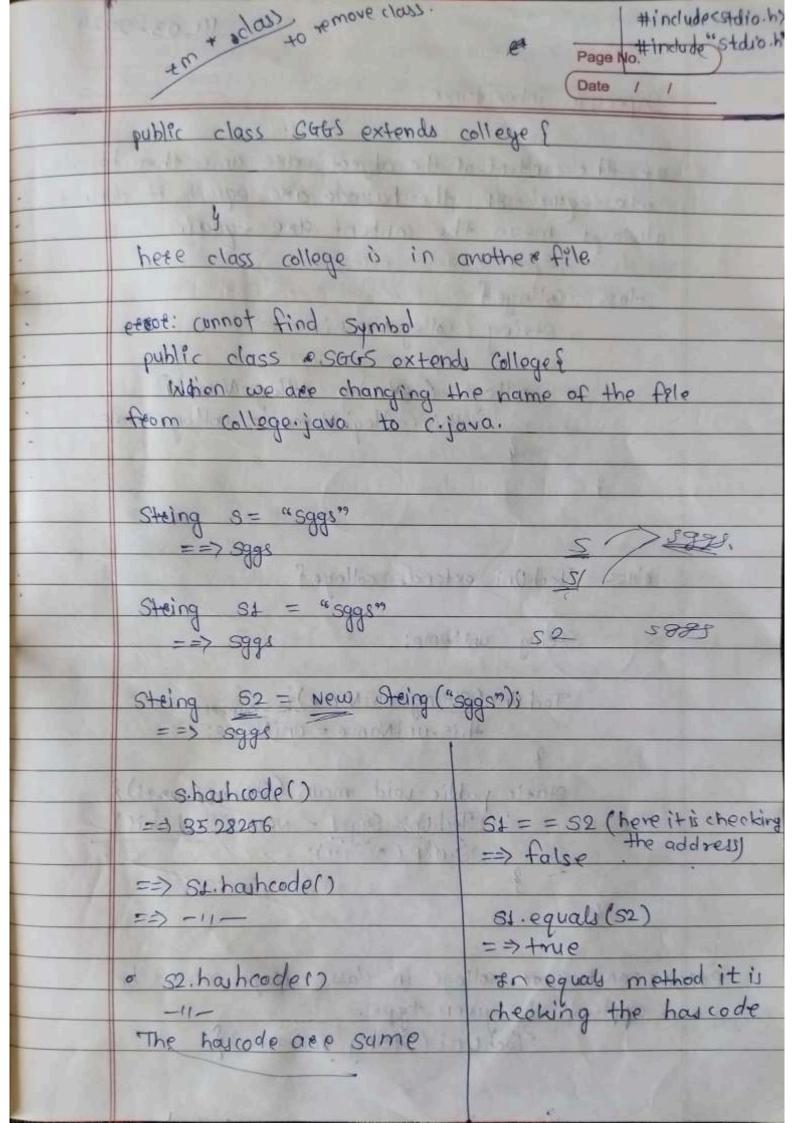
neturny " " + get Class().get Nome()+@

+ Integer. to Hexstring (hauh (ode ()));

also cheek it with

5.0.p(*Dofault cons) returns!"):

If there are two classes we cannot make both of them public. There will be an erece that second class exiclass sggs should exem be declared in a file named sqqs.java



Superey in inheritance.

If the content of the object are same then havedo ate equal of the hascode are equal it doesn't always mean the content are equal.

class College & Streing CollegeName; " to the

college (Steing collegeNume)?

this collegeName = collegeName;

class Techuni extends college &

Steing uni Name;

TechUni (Steing uniName) & superch; this.uniName = uniName;

Static public void moun (Steing 17 anys) {
Tech Uni Sggst = New Tech Uni()
\$.0.p(**");

expresconstructor college in class college cannot be applied to given types. Tech Uni (Steing UniName)

	when subclass object is created super class default constructor only the sub class constructo	9s rage Word & Hhon
THE	THE RESIDENCE OF THE PARTY OF THE PARTY.	Control of the Contro
	For each & every constructor by de this thing is their It is hidd	fault super()
	this thing is their It is hidd	en but it is
	0.00	
ELLE.	Thes line is implicitly there by	tit is hidden.
	TechUni (Steing uniName) {	
LA F	F super ();	
	this on Name = unil	Vame;
	super (unido	mp);
1,000		non-static voziable
	execute it & see the regult	deptName connot be
100	class College & E	seferenced from a
	Steing clg Name;	state confext.
Y ALL		Company of the second
Towns.	College (Steing clg Name)	
	5.0. P this cold Nama	= clgName.
107	closs Department &	CAN COM
	steing deptName;	
	Department (Steing	dop+Namo)f
Grant T	this dept Name =	= deptNamp:
100	The same of the sa	
	state public void main	15
	Static public voto wew Col	long (6 sage ()0; ").
1 180	College Sggs = New College (" 5GGs Uni"); S.O. P (college Name)	
9.4-2	Department DI = NEW D	opastment (IT Dest").
	Department DI = New Department ("I,T Dept") S.O. P ():	
11 235	see the creek here by exerciti	ne

Page No. Date Angers theological activities are a door and that published is at month of points of the state public void main (Collège aggist = New collège ("5695 Uni"); S.O.D (sggst. collegeNume);

De dept = sggst. new Depa ' ("IT Depte)

S.O.D (" " + sggst); college days ces: cannot fond collegeNomo = SagsUni Add this method to class Department Steing get Dept Details () { nent Name:" + college Name + "Depart ment Name:" + dept Name;

programme of the same of the

		Page No.
	class college {	Date / / /
	Steing Name;	2002 LANS
	1 2 Card C and C Indian store of hotel	31.200
	college (Steing collegeName) {	A STORES
	Total A	no: oe
Thins!	The Dramaters Millian 18 a	college this name
	class Department &	= collegeNamp.
Macin	Steing name;	
	Department (Steing dof Name) &	Aldren - I I I
	this name = depth	Jame!
	The land of the formation of the	Street To Lite
	Steing getDeptDetails (Stein	g hamp) {
	indep name + in the	allego kiam e "
- Burney	+ College. this. n	ame +
	6 In Dep+Name"	"+ this name;
Daniel In	4	
Bhi Na Nu	5 P N M () §	top and their of
HOU	College Siggst = New	collège («sces unia)
	interpolation who do donica no	Tell to the format of
	shortend and and I man not	Total market - 2
Bol		
	air months he have proportion of the alle	0.0143011700
	The state of the s	
	To return gette philomat	Lac A
		A Company of the Comp
	103 10 10 10 10 10 10 10 10 10 10 10 10 10	
		The state of the s

eggst. mytosteing (): public Steing mytosteing () ?

roturn "MyTosteing" + get (lass(), get Name () + "O" + Integer. to Hexsteing (hour hodes);

S.O.P (" class's to String () return :"+

output: Inside main

class SGGS &

Default constructor () return : SGGS@1dbd1606 classis tosteing () return: My tosteing sous @1 detec

In this line prents out the result of calling the 'tosteingr' meth implicitly on the sggst object. Since you haven't overeide the tosteing() method In gove class, It will we the default implementation provided by abject days. this default implement indudes the dass named the object hash rode.

explicitly calls the mytosteing method detined in class.

used to modify the content of

S.O.P(5998)

for each loop

int axx [5] = { 1,2,3,4,5}

for (int a : axx) {
5.0.p(a);

Static block.

black of code enclosed in braces 13 preceded by static keyword. When a closs is loaded into memory, static black is executed only once, before the execution of main method.

cannot have access modified, cannot accept any parameter

Init block (instance initialization block)
block of code within class executed when an intence of the class is creted. not preceded by static keywoord.

Executed in the order they appears in the class.

before the execution of the constructor code.

cannot have access modifiers, cannot accept parameter

of two objects of the values of primitive typ

When used with object == checks whether two references point to the memory location whether they refer to the except same object instance

nt student[] = New Intle	
Q8868:	Page No.
	Date / /
int students[] = new inte	67
==>	The last the same of the same
all and bat payed hat and ligaries have	anares Cores
=> int students (a)	of of two or
	CHIEF THE REAL ACTION AS
steing 81 = «sqqs»;	attended to be highlighten
21-2) 0 00-	
SteingBuffer SI = New St	ingBuffler (" FT");
> 0040/FT	to the
==> sggs IT po	4
Steing is imutable & steing	Ruffer Pi amutable
Sublass provides a specific implement	ation of a method,
that is already defined in its s	rupese lass.
class Animal 9	itors who
void onun d() S	College D. D. St.
2.0.p (An)	Military Resident
class dog extends Animal &	
3 () bound biou	
3 S-0. P (Dog	
Organica - multiple method will	th same name but
Overloaking > multiple method will diff Parame, diff	method signature
Overaldon > method have same nam	e, return type. & Paramete
as the method in superclass.	

Jshell > Thread. Sleep (2000);

must be caught or declared to be thrown.

static void clesce () 9
tey 9

2 Thread.sleep (1500);

cutch (Intersupted Exception) {

3

S.O.P (* 1038[H1033[24");

public static void main (steing angely) {
clesce();

of other witter with colored of the a colored

Floor A Chapter son

Pragya2024. -4();

world a mile of the among this

Thread-sleep() method is used to pawe the execution of the current throad for a specified amount of time. Useful for various purposes such as delaying execution, creating animations. Thread sleep () method accepts a single parameter representing the ducation of time to sleep in millisecond

Java 8 platform independent. Java program are compiled into bytecode, which can run on any platform with Java vietual machine (JVM) installed, regardless of hardware or as.

Compiler > Java programming language into

tosteing => return a steing representation of an object [8.0. \$ (91)]

SteingBuffex

> Appending strings
> Insecting characters at specific positions

> Replacing characters.

String objects are immutable, their values connot be changed.

Steing is immutable you can change it wing or modify it wing steing Buffer and steing Builder.

StringBuilder is not thread-safe, it should not be wed in multi-threaded environment.

Super() is a keywoord wed to coul the constructor of the of the superclass from the constructor of the subclass. Used to explicitly invoke the constructor of the of the immediate superclass.

d. calling superclass constructor.

when you create an instance of a subclass, java automatically calls the constructor of the superclass before executing the code in the constructor of the subclass java implicitly inserts a call to the parameterless constructor of the superclass.

2. Accessing superclass constructor with arguments.

super (arguments) < 1+ 13 allowed

3 Placement: it must be the first statement in the subclass constructor.

Government Compagnition of Com

sales abjects one formalable, their values

18 squalist non vop alda Angura in take

Souton han salkapation paint of Allegan to

character in the string st.

acress only the super class members, but not the sub class members. But If we create sub class object, all the members of both super and sub classes are available to It.

may have same names, In this case by default only sub class members are available.

Super variable

super methodo.

this is a keyword that refers to the object of the class where it is used. this refers to object of the present class generally we well instance variable constructor & method in a class. All these members are reference by this. When an object is created to a class default reference is also created to internally to the object. This default reference is nothing by this? So othis? can refer to all the things of the present object.

instance variable

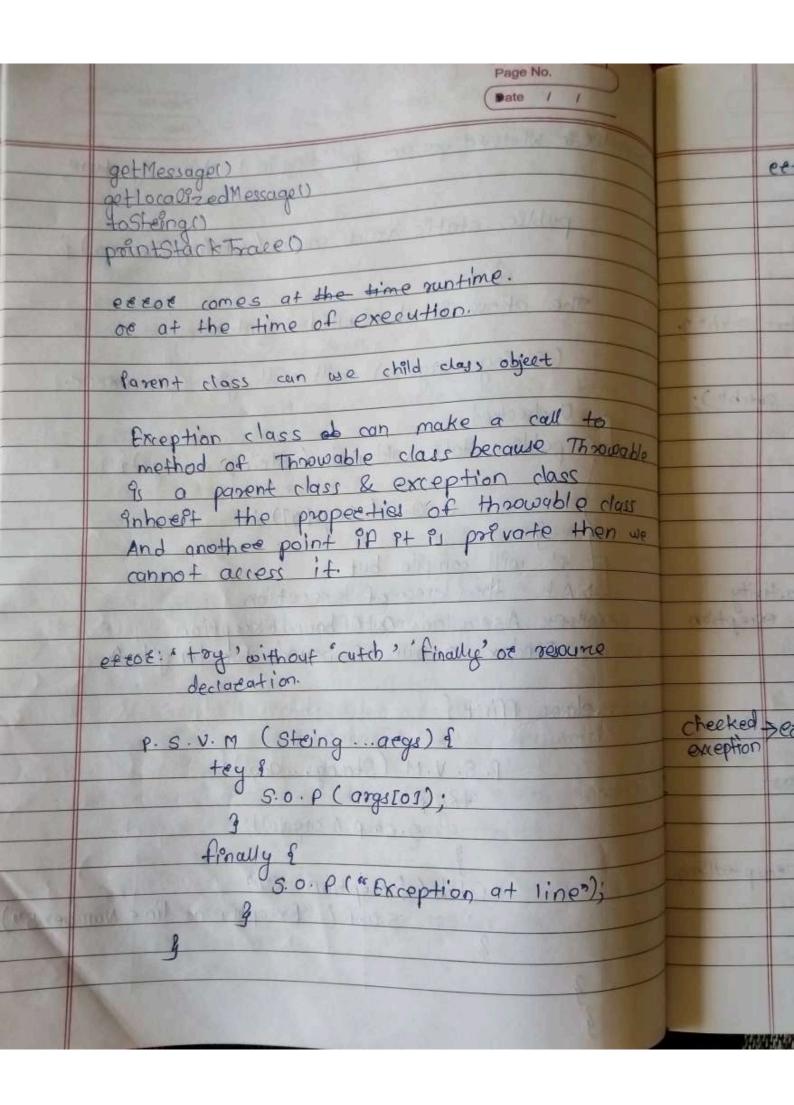
this constituetor

method

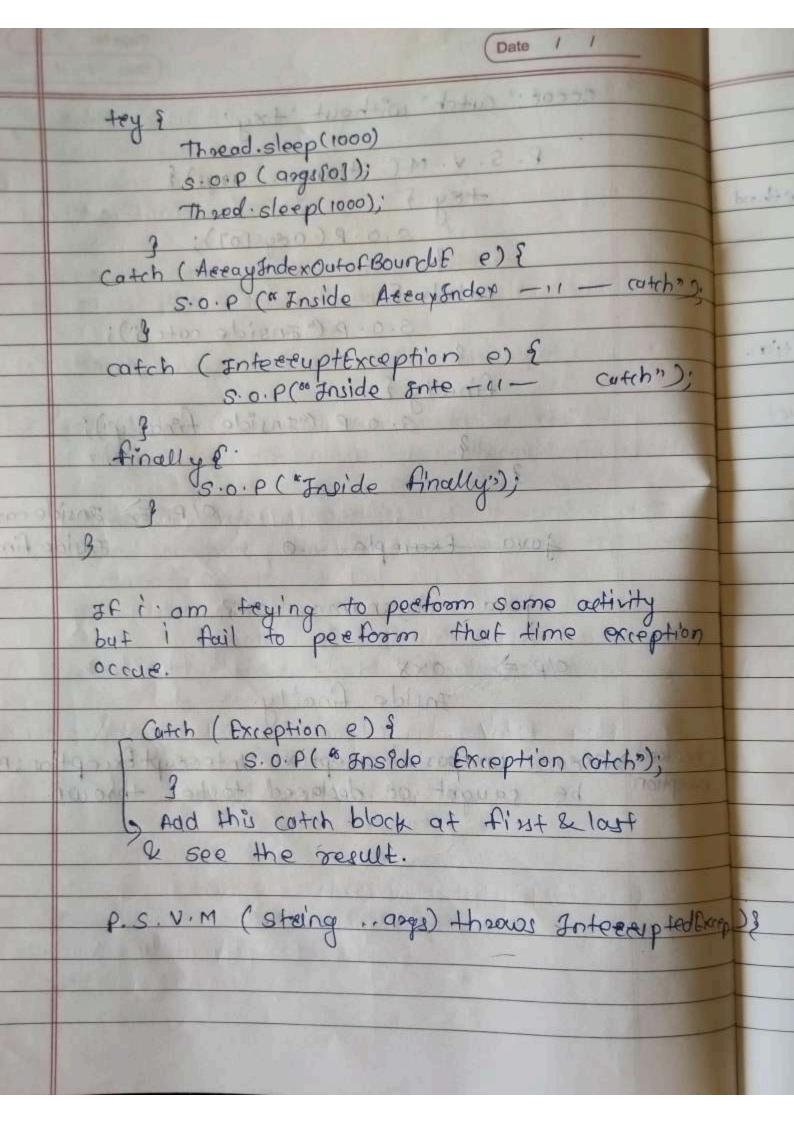
vold modify (intx) & this.x = x; 11 store local variable x Page No. present dass instance vow 2-4-2024 * Innet class. Exception -> checked Unchecked. IF we are getting exception of the time of compilation then we can check the exception. Compile time exception. Runtime exception > Unchecked (accordance to 1> catot (Stackoverflow) Allegal operation: Divide by zero. In the recursive call we keep on creating one then the memory of Jum will be flui & then the stack +low overflow exect occur of It is not internall in the progreem) * Command-Ilne agguments (explose this concept) Copole = java ffirst java ffirst => lova. jovo ffixt 123.456 567 > 123.456

Parameter & whatever you are providing in function signature public static void main (Steing ... args) { A sir no south all to so you your The above is the valid syntax (String args...) < 9+ will give an exect. Uncheelked the mode and with the > public static void main (steing ... ongs) & 12 may a too 2 most free 3 6.0.P (0xgs[p]); ## will compile but. > A + the time of execution extoreex Assay Endex Out Of bound Exception andex o out of bounds for length o class FAist & B (none de printe) De mode a que P. S. V.M (Steing. acgs) {getch (Exception e) { 5.0.P ("Exception at line Number 5");

4 30 - 11-0



	effof: cutch without 'try
	(000t) 100 to 10
	P. S. V. M (string args) {
	tey & man had been
14	S.O.P(0egs[0]);
	3.0.P(0egs[0]);
27-1910	catch { \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	B.O. P (* Inside catch);
	Co finite material a succession
("do	finally Edina
	S. O.P ("Inside finally");
	q and the state of
	3 Coulland Spirate 1910 2
	O/P => Inside catal
	java Example o Frido finally
- 11	
	java classname 0x8
	but I faile its parthogen stine to the
	$O/\rho \Rightarrow O \times 8$
	Inside finally.
hooked	The state of the s
a eption	be caught or declared to be thrown.
	be equant de accidered to be thrown.
	The state of the s
	Minage and age of the second
O (see g)	estall consider (posts) poster) Million Safes
91	established (see) posted in v. o. o.



Compile time extor: This extor occur during the compilation phase of a program.

ex: Missing semicolons, undeclared variables.

Runtime effor: This exect our while a program is

Ex: Accessing an array element beyond it's bounds.

logical exces: (semantic ecros) when the program compiles and runs without error message, but does not produce the expected output due to flaw in the algorithm

ex! Incorrect condition, wing weong formula.

* Exception are runtime ecroc.

1 30 A B

Runtime => wello main method in Java without

1t's parameter string anger?

Runtime ettor are defected by UVM, only at runtime.

The exception that are checked at compilation time by the java compiler are called checked exception.

while the exception that are checked by the JVM are called unchecked exceptions.

Unchecked exceptions and excess are considered as

In case of other exception (checked) programmer should either handle them or throw them without handling them.

4-4-2024 Date / /

method concrete abstract

Author baselshap a salesione chrolin Interfaces contains constant variable l'abstruct met does not confain concrete method.

> Abstract class: (don't have a definition) Abstract class may contain concrete method concrete method means it contains clear definition

10000 of godan (30000) 1 50000 (100000) Abstract class should fontain atteast one abstract method I or out laytun laboryes all anothers

Interface Voter & void cost Vote ();

interface EC formation son witgers

vold check Vailidity Of User (); routh of the Hard miles of the contract of the

meet soist a sotomorog 243 abstract / class Ec India implements Voter, Ec ?

void coutVote() & the jave compiler not called wheek the continue

so the exception that one closed by de all all he void cheek Vailidity Of Voter 1) { to be be supplied of the sand of the sand of all

charte sammas porg(653, and 5) moi ignores and to to me our at twentier mont words so month officed southing

```
p.s. v. M (String args[1));
int i=0
        in+i=0
        on Albania D. LO. La Carolin P. march
      trey &
        Catch (Exception e) f
  S-O.P ("Something went weong") +e);
          S.O.P(J);
           8.0.P ("Bye");
 Catch block will be executed only of these is a
  exception.
    P.S.V.M (Steing argus[1) & int i=0;
     in+ i=0;
      int nums [] = new int[3];
      Streing ste = nell;
     S.O.P (stellength ());
       5.0. P ( nums[1]);
    S-0-P(nums[5]);
```

	Date /
F-9.	catch (Azi-thmetic Exception e)
	\$ 11 ido by 70809;
0	8.0. P (" cannot divide by zee o);
	(a coceanderxception e)
134	Catch (Acray Index Out of Bounds Exception e)
	E a a a (a a) . a valle limit. ");
	S-0.P (a Stay in your limit. ");
	3 1 1 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2
	Catch (Exception e) {
3-1 80	S-O.P ("Something went weong" te)
	2/7) 9 0 2
	S-0.P(j) (mayan) 70.3
	5. o. P ("Bye");
	Product to the plant have not the doubt date
	4 . College veg
	Exception is penent class so keep this at bottom.
MIN	The state of the s
	class Demo &
74	p.s.v.m (Steing aegs []) }
N. CR	int i = 20;
	intri=0; an Elleman and a
	tey & Man and parties
4-14	J=18/1;
	$(0==i)q_i$
	throw now Arithmetic Exception ("I don't ware");
Ki je	
	Catch (Aeithmetic Exception e) {
	2 S.O. P(" Hn+15 the default output"
148	2 so. I that is the detault output

	Page No.
	Date / /
- Leks	Cotch (Exception e) {
	8. 0. P (" something went wearn " 40).
8,019.4	state galvatal
	9:0.P(0);
IEE	8.0.P("Bye");
oibatt	3 feets to a solution bet the two things like Et
	totals this ap of team pop and anticomodom ?
*	Custom Exception in Java
	Hall sope resolved a contract appetities
	class Navin Exception extends Exception
	8
	public NavinException (string string) f
A	said promises say anber (stella); more - in
	3
	Public class Demo
	algorial costs trusted
. 4500	Later as the of Statutant Later and a state of the office
	edu sateple so whool hoden paissing source obs
	if (i == 0) and Pxeption (= I don't want to
	paint zero ");
	Catch (Navan Exception e)
	the most are obstract keywords.
-20-4	of the freezent biox topstade
	3 .919 mas 117 co +9 made
	rouf of the code is same.
1 1	exect interfere of their method conner to
	Exception dass. You have to pass the my to

Corstances.

10 - 4 - 2024 Page No.

Date / /

Throw exception

ettor specific question. Exception handling Interface, obstruct deus file handling

of their is a collection bett the two things like Ectadia & EcMahacashtea then you need to go with classes.

public is a weaker access specifier.

gedit vi - ternined to exit from this command press W.

obstract class somple

petror: missing method body or declare abstruct.

Lyabstruet class Sample of void funSample Abstract U;

3

you need use abstract keyword.

abstract void fun Sample Abstract():

then it will compile.

ex 80%: interface obstract method cannot have body

	work with constant variable	
	Page No.	
5-	Date / /	
	abstract void fun Sample Abtract (); Noid fun () {	
	3	
>	exter: sample is not abstract and does not oversid abstract method fun Sample Abstract () in sample.	
L	class sample {	
	3	
	& you cannot reate the object with abstract	
	Abstract class can be superclaus.	
	Abstract class cannot hold reference versor	
	STANKALA EGENTLER EL TIL	