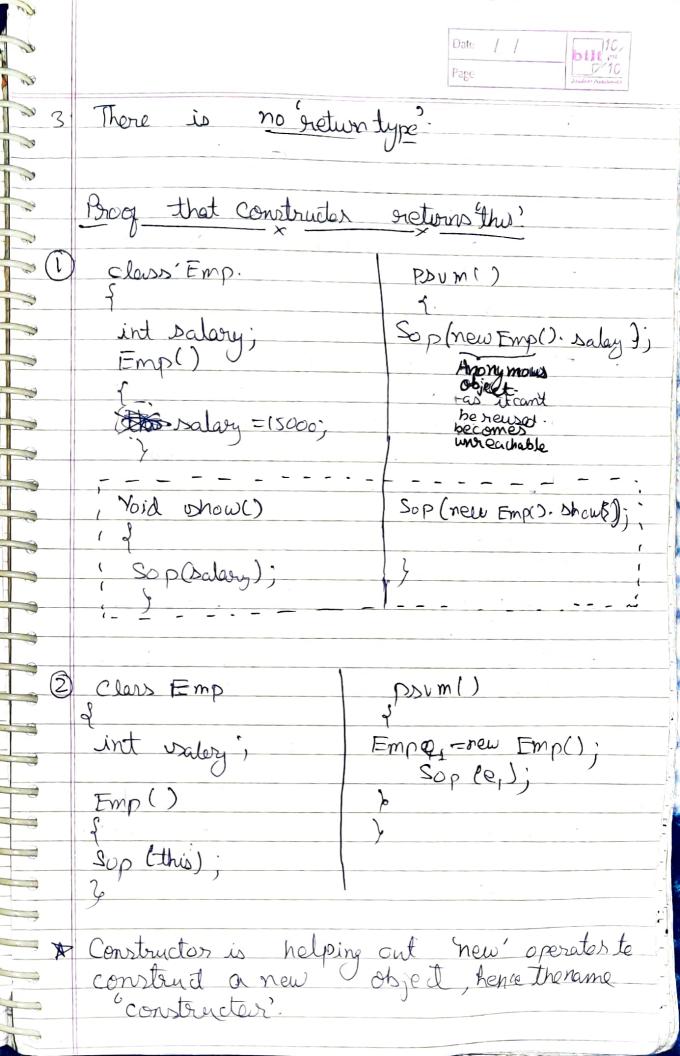


Date Class Emp int salary; & Normal p voidget() > 1. It is created for ofter oreating object an 2. It is called of times her ce can be initialled any no a times but it has to be initialized only once. Dalary = 1500; 3. No guarantee it would Now, we have to after the Normal Single line of code write outside the fr. a Alterations Made 1. We have to initialize at the given place, its not programmer dependent/wish. eg so, defined place is: - new get > D'In above ue see after new up wed getts so we phagram not doesn't Know class name So, Constructer name is changed to some as that of Clary Examples RID Class Emp Emp G=new 1=mpl) int salary; Total Emplempthis Pansar. this Isalary = 15000; of (return this ))



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	Constructor Def Acc to Aggs	Brogram :-		
	7 - 1)-	- 0-		
( )	To am tank was want -	to conton	<b>W</b> \	
G)	of the line	Ci do or	OM.	
	The any task you want only once in the life object, then put the code	g that	tont	
	into the constitute cons	y wat	SU III	
	into the constructor.			
(1)	-Ti + +	wala the		
(ii)	If you want to percentain resources to a	Much of sit	A	
	conan resources de co	the one	<del>9</del>	
	class while creating it	unen pu	h + .	
8,9	The code of their res	ources is	NO	7
	una Constructor.			
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\$	(i) Constructors are by r	alure 5t	atic	A
(	in Java.	A. H.		
\	ii) It sa a spl static in	· / 12 Uhls 4	(S)	
	only static of that use	s inus;		
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Non-parameterised: Class Temp vaid Show() Sop ("show"); gue - Since there is no no Templ constructor PDVm () but it runs? Why? Ans > Compiler inserts a Temp t=now (Temp(); \
t. Show(); -/ Hon-parameter sed Cons. -tructor on its own when class has no constructor. No Class can exist without any constructor · Rule If there is no constructor in a class then one non-parameterised Constructor (Deput) is inserted into the class by the Compiler. Proof (PTC.

Date Page Class Temp PAVM Compila -,tioneria -Temptznaw Templ); Vaid shoul) there is & Shoul); two in /"show"); Condi 9 9 One Pera 7 Templintx) Paramet eresed Constructe, Sop (x); Itean be corrected by Templ Sop ("default");

PDV m class Temp Temp 1 =. new Temp1) Temp int x; Temp () Tempt: = new Tempt) 2 = 50; tz. shew(); 19 = 100', raid show!) Sop (x); Suply); If you want to initialize the datam member or each object with same values then always use default constructor, and this concept is known as Static initialization of non-static data members. Non-static à data meter members can also be initialized at sticlars law.

152 Am Class Temp() Int  $\alpha = 50$ ; ant y=100; Void show() Sop (2); Sep(y); 1 ster compilation above charges to clars Temp!) int 2; Temp() 2) 1/4 more contractors are present Compiler inserts instal values in all constructors.

In Jour methods can be called at class Level. class temp psum()

f this get() implicitly new temp(); intget() Sop ("get"); return 109; Sop ("constru"),

3 ρ(χ); In Java we can also call the method at class last to initialize the data methods a clars. The Datas Member is a static then methods must be i.

The Data Mem one non-stat them methods must be i.i. Compiler does this 7 it Sop(r); - class tenp d intx; tem ()

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Practice	· ·		
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class B			P
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food int z = this og a			
int get xi()			
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So of the contraction	و در		
sope va got jur	10001	4	
Sop (x); Sop ("via get jur return 10;			
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Sun (=1) = * +" \	is const	Fuelo 1	) ) ·
Sop (this .x +" V	Or COTON	1	) )
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psvm()		- 2	2
}		,	
psvm()  new B();			
}			
}			
}			
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}			
}			
}			

Example Class Templa poum ()
RID int oc; 7emp tj = new Temp (10,20) F. Dhow (); 1-x=10 Temp (int sc, int y) Temp to = new Temp(100,20) this. y = y; s/coid Drow() 30 p (nx); POUMO() If you want to initialize data me--mbers of each object with a diff.

diff. takes then always were
Parameterised Constructor, and this concept
in Known and this concept is known as agramic initialization of non-static data mombon

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			-	17
	& class Temp		-	1
	{		eli-	7
	Temp()			
	3			
ŗ	Sop ('default');			
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	void Temp()		•	
	<b>\</b>	ų.	<b>3</b>	
	Sop ("Hello")		-	
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	new temp(). (new templ). Tempr			
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(i	) There is a neturn type	of Fen	1 <del>p</del>	1
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	name - Temp'		•	
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Rule In Jowa we can also make a method with the same name as class name. Java check with-program' only that methods which have no return type of the method is with new 4 the method wit which is after . ' should have a notwen Type. COPY CONSTRUCTOR LA PARAMETERISED Copy Constructor is used to oregte the dublicate copy of some existing object. Its like a photostate machine. Class Temp Temp (Temp 🕏) this ·x = Z.x intx; intgy; This g = 2.9 Temp (int x, inty). DDVm() Tem ? Temp  $t_1 = \text{new Temple,} z_1$ - $t_1 \cdot \text{Nhow}()$  x = 10 y = 20this. x=x; this. y z y; Void Show() Temp to = new Temp(1/2) tr. show() jag Sop(x)Sop ( 3g)

Call by Yalue Whenever you are passing actual value when of variable in any of Calling it, is known as Call by Value any in while calling it as call by Rel A Java doesn't support call by Reference. Ig. -> In above 1001 fr (1001

CONSTRUCTOR CHAINING Calling of one constructor from another constructor with respect to a current of object is known a Constructor chain-1 Class Temp povm () Temp() new Temp!); Sopl'dgault"); Temp(int x) ths (10,20);->30p(x); Temp(into, inty) -20b(sc+h);-RULES Whenever you are doing a constructor -chaining using this Of then it must -be the 1st line in any constructor: · Whever you are doing a constructer chaining using a this cos' there must be

Date / / having a 'thist' as a 1st pargumeconstructor cent chaining can be achived in any any order class Temp Temp() < Sop ("dopoult"); stemp (int sc) Temp (int, inty) new Temp(10,20); this (10); 20p(x+y) Here we could have written "Temp(10" this (10)'. But why not? instead of this (10). Is why was a second of Temp (10)' could have painted by to any Temp named of n

used only 1 object an A wring other and could have conjused Progress 4

have used only I object an A wring other
Keyward could have conjused Progress 4

here only or I obj is there a this paints
to that current'- One' object.

• Whenever you want to create so many

than putting code of each resource in a single contructor, create a reparate combructor for each resource of them make their chain.

We can also create this chaining when constructor depends on nexult garether 1.