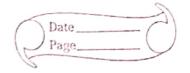
	A to A A A A A A A A A A A A A A A A A A
	Methods
→	Sometones our program grows en sizes
	& we want to seheate the wight I the
90	the main method to form strick meshous.
11-3	For Instance; If we are calculating the average of a number pair 5 times, we
100	average of a number par 5 thinks, we
(can use methods to avoid superting the
	legfe:
9400 H	logse. DRY = Don't ocheat yourself
an.	Syntan of Method
11	100018 ON
	A method In a function withen inside a
J 5	Man. Sence Java Is a OOP languages
Marie	we need to write method sniede some class-
1	Sime with the continue of the continue that the street
100	Luntar
	areturnType name Of Method() {
	et Method body
	7

.

e.g. Ent my sum (Ent a, Ent li) S ent c= a+b; eveturn c; // Return value -> In the above method, Int Is the return data type of the mysum function. -> Honysum takes 2 harameters a & b <u>Calleng</u> a <u>Method</u> I method can be called by creating an object of the class In which the method unists followed by the method Calc olég = new Salc () 3/1 Olégest Creation olig-mysum (a,b); // Method call ripon
can object The values from the method call (a & b) are copied to the of the mysum Their even of we modify the values of a & b Inside the method, the values In the magn method won't change.

11	
o te	Told return type
	and the second of the substitute chair
	When we don't want any our method to return anything, we use rold as return type.
	seturn anything use rise read as setus
	type.
-	State keyword
4	referred to the second of the transplant
\rightarrow	The so static keyword & used to
	associate a method of a given class with
	the clay rather than the object.
9	You can call a state method without
M	creating on instance of the class.
1	In Java, the main () method so state,
ara	so that JVM can call the main
Detect	- Nach methods are called as Lovers
	Princess of method sovocation en Java
Dill	package com-company;
	class salculate a
	Ent sum (Ent a, Ent le) 5
	seturn a+b;
KALL	eggi declipt a) y lestaleaded
	recent for the control of the
. 201	PSV m (Strangs [] args)
6	Cal-1 lata 10
	Salculate obj-new calculate z(); ent c= olg. sum(5,4);
	Sout (c) 3
	3
	$\log \ln = 9$
	Coff.

$\rightarrow \mid g$	nside the main method we've created
a	n object of the calculate class.
	lej es the name of the salsulate class
Jh	en use we sovoked the sum method &
ha	assed 5\$4 as arguments
Note: 97	The same & the case for object
hassed.	The same of the case for object
- passang	to methods.
	and the second of the second o
	Lethods Overloading
to	From traille mother of the mother with
-g	2 Java St & possible for a class
	contain two or more methods with
41	re same name but with different parameter
	uch methods are called as Overloaded
11	ethods on an in hall and he mand
11	f Encreases the neadability of the rade
	of a contrata of
. 8	og. The koto a know out the
2	old foo ()
19	ged foo (Int a) 4 Overloaded func?
920	Ed foo(Inta, Entle) I foo
	Server of the se
9,	Days to perform Method Overloading
	and the state of t
à D	y changing the section type
2	of contingency of the same signed
D 0	shanding the number of accuments
o) by	changing the number of asguments
- 00	epted see wie meridia



	The second secon
ر	Now let's suppose you want to overload
	an "add" method. The "add" method
	would accept one orgunent for the
	ferst same & every some the number of
	arguments passed will be incremented by I
	till the number of arguments is equaled
	to 10.
	One approach to solve the peoplem
	of to overload the "add" method 10
	Ames, but If sont the coptimal approach
\rightarrow	Hence Varangs (Variable Arguments) were
	gntanduced with the sections of JDK 5.0.
	$\mathcal{T}\mathcal{D}\mathcal{V}$ ∇ .
	Remords : d function so Town can
20	Suntanion . Maria
· M.	function to strate to collect security
	hulebe state word too (Ent asr)
	Syntan: hulbe state vold for (Ent asr)
	// arr ex avalable as ent [] arr
	1.50 - 12 - (10) - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
	4
+	Jane Methicals Pinartee 1
	for eag.
2	Q Spiles a Town method to this
	class calculates
	and the section of th
	state ent add (ent arr) {
	Gnt result = 03
	for (ent a: an) {
	result = result +a;
	3 * * * * *
	geturn result;
	2.

ps vm (storg [] args) Sout(add(1,2)); Sout(add(2,3,4)); Sout(add(4,5,6,7)); Recursion: A function on Java can call stock such calling of function by stock is called Recussion. 2-g. factoreal of a ng. fact(n)=n* fact(n-i) + n>1 Java Methods Practice set Write a Java method to print the following pattern normally & with secursion * * *** * * * * * * *

92 Method to prant the mult" table hackage com-company; statte vold multiplecation (ent n)
public class Methods of
statte vold multiplecation (ent n) for (Int i=1; i<=10; i+1) {

System.out.format ("% od x % od = 1-d/x), n, i, $n \neq i$); state vold pattern (ent n) 9 for (ent ?=0 ; ?< n;3++) & for(ent j=0; j<1+1; j+1) d Sout (" #") 5 Sout (); state vord pattern I seec (Int n) & sf (n>0) & patter 1 - nec (n-1); for (ant 3=0;3<n; 1+1) {
Sout (Sout prent ("#"); Sout prentln (73

ps v m (Storge [] orgs) & multiplecation (7)5 pattern I (5); pattern 1 rec (5); 7×10=70 Same patter for rec