Assignment No. 6 DATE: 1 120	
a. 1 What is method overloading in Java & explain	0.2
with an example?	Jes Jes
- method overloading + having two or more met	ba w
in class with same name of confect	n - 6
arguments (or parameters).	1. 7
Lo It can be with a different number of	* '
arguments or different data types of argument	2. 1
- Maria s militarda de la casa de la confessa de la constanta de	- 1
eg: 1)	-
class Addition	3.
Static int add (int a, int b) {	4.
* ** *********************************	1 (4.51)
class Addition (3.
public int endd (int x, inty) {	
rectiven (x + y); }	-
	. 1
public int add (int x, int y, int z) <	-s. De
setwen $(x+y+z);$	
the state of the s	- 38
public double add (double x, double y) <	to TAB
setuen (x +y); }	
public exotic unich main (string 5 7 - 1-1)	
public static void main (string [] args)	
sum a= new Adolfied);	
	-
System. out. println (a. add (10,20)):	
System out println (a. add (10, 20, 30));	
System. out. preintln (a. add (10.5, 20.5)),	
\$ (d. add (10.5, 20.5))	
Output: 30 60 31.0.	

Q.2 What are the sules for method overcloading resolution in Java? How does java determine which overcload method to call? + Rules of method overloading:-1. The overloaded and overloading methods must be 2. method parameters must change: either the number on the type of parameters must be different in the two methods. 3. The return type can be preely modified.
4. The access modifier (public, private, & soon) can be freely modified. 5. thrown exceptions, if any, can be freely modifi

- method overloading is determined at compile time. Hence, it is also known as compile time polymorphism.

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b.

in same class

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DANI	1000	- 1	1	1	U)

	DATE: / / 20
DE	
Q3 what does the static	keyword mean in java?
Explain diff. b/w stati	c 80 pon - static method
A Static keyword in jo	and indicates that a ma
particular member is no	
xather than part of a	type
Last any member in a	class is declared as
	even before the class is
	member can be accessed 45ta
Le become active.	two to the two
ten la gibern iplante ed	tim to the select face can
Static	Non-Static
1. Static method that belongs to	1. Every method in jawa defair +
does not belong	- It to non-static method in
to distance of that class &	without a static keyword
method can called with	preceding it. non-static
-ut instance or object class	method & static variable
	culso without using obj clay.
	0 3
2. On method can only access	2, method can access static
onlystatic data member &	data manho la chiada
static methods of another	data member & static data
class or same class but	methods as well as non-
	static members & methods
cannot access non static	are different dass or samedass.
method by raviable.	
3. Uses compile time or	3. bases runteine or dyna
early birching	- mic binding.
0	our de la constant de
1. less memory used for exe	1. AMALL
- cution	4. Much memory used for
- cana)	execution.

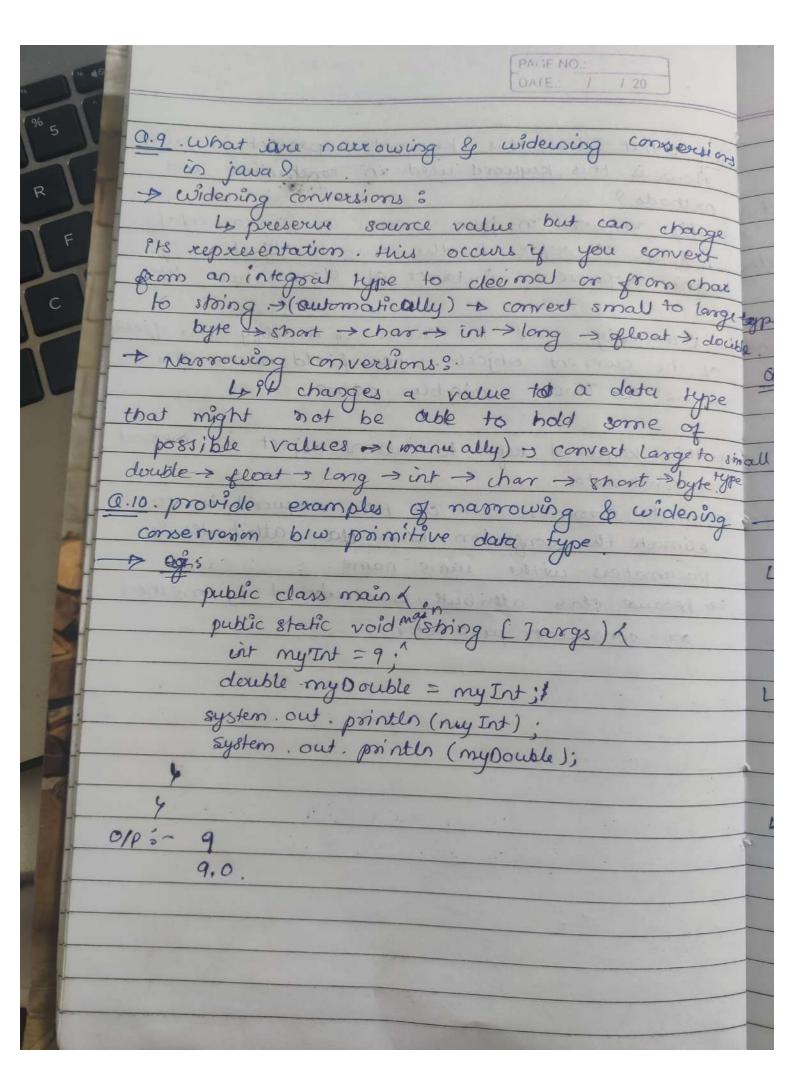
PAGE NO.: - DATE.: / / 20 0.4 can static methods be overloaded & overvidden. va 9 is Java? How static variable shared across hods. multiple instances of class? > Static methods in Java countrie overtea vidden because static methods are not associated with instance of class, but with class itself ys is. Lastatic methods can be overclosed, we can have ccesses two or more static methods with same name but with different parameters. defaut to yes, To stored information that is shared across instances of a class, use a static variable. All thod instances of same class share a single copy nd of the static variable. tic. able class Static ic date body une class.

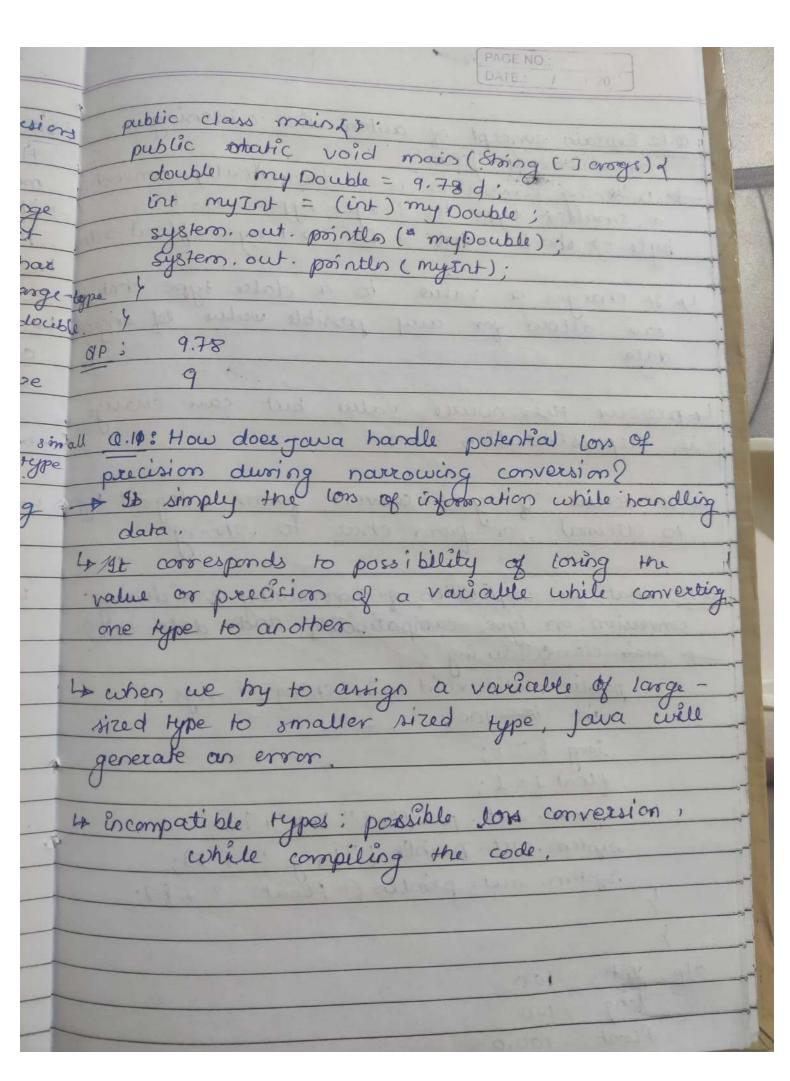
a.s what is scale of static keyword in context of memory management? - Static keyword used for meresory management 40 used to share the same variable or method of given class. methods, blocks by nested classes. instance of class. method that is same for every instance of class.

46	DATE: / / 20
V	1.7 can a final methods be overviolden in subclair ? a.8 How does the final keyword affect variables, methods H
	How does the final keyword affect variables, mets H
1	- add to classes in Taylay
	-> No the methods that are declared as first territy
ı	be overridden or hidden.
	44 min Summer value.
	LA final keyword serves as a non-access modifier u
1	applicable to classes methods & variables.
1	to ginal class connot be subclassed.
H	4 non-access modifier used for classes attribute se
+	& methods which makes them non-changeable.
4	military to bottom toward of the toward to
1	of the methods - prevent method oversiting
H	our ider by subdies, uniful to welled that
H	se posts of these public art & should media
11-	L is sub-lass.
1	- , 8000) dusc 12 L
1	and the state of t
-	unal class - possuert inheritance.
1	
1	the is unique for colonies that intended to be until
-	in is and should met be excelled or extended
-	
-	
-	

law 10.8 what closes this keyword represent in Javas How is this keyword used in constructors and methods 9 methods?

This keyword in java serves or fundamental purpose it refers to the current object. whis represents instance of class where its used, last and an install the last the to commonly used to eccess or modify the fields of the current object when field name ou. ute some as local variable name. + this keyword reger to current object is method or constructor. is most common use of this keyword is to elimate the confusion blw was attributes of parameters withe same name. 4 because clas attribute is shadowed by method on constructor parameter.





Q.12 Explain concept of automatic widening conversion in java? Devidening conversion is automatically converted a smaller type to larger type sized byte - short - chat - int -> long -> float shable 4 21 changes a value to a date type that can allow for any possible walke of origina data. La preserve the source value but can change its representation. to allinal, or from char to string. Q.13. What are implication of narrowing & widening conversion on type campatibility and data loss mais classifuldering & public static void mais (strong [] args){ int is 100; long l=i; float f = l; · system- out, printle (" Int "+ i). system, out. printle ("long" + 1); system. out. printles ("Float "+ f); olp Int 100 100 100.0

