## ASSIGNMENT NO: 427

9.1 What does the static keyword mean in Java ? Explain the difference between static & non-static methods. - Static methods can be called without creating an object of class and can only access etatic variables.

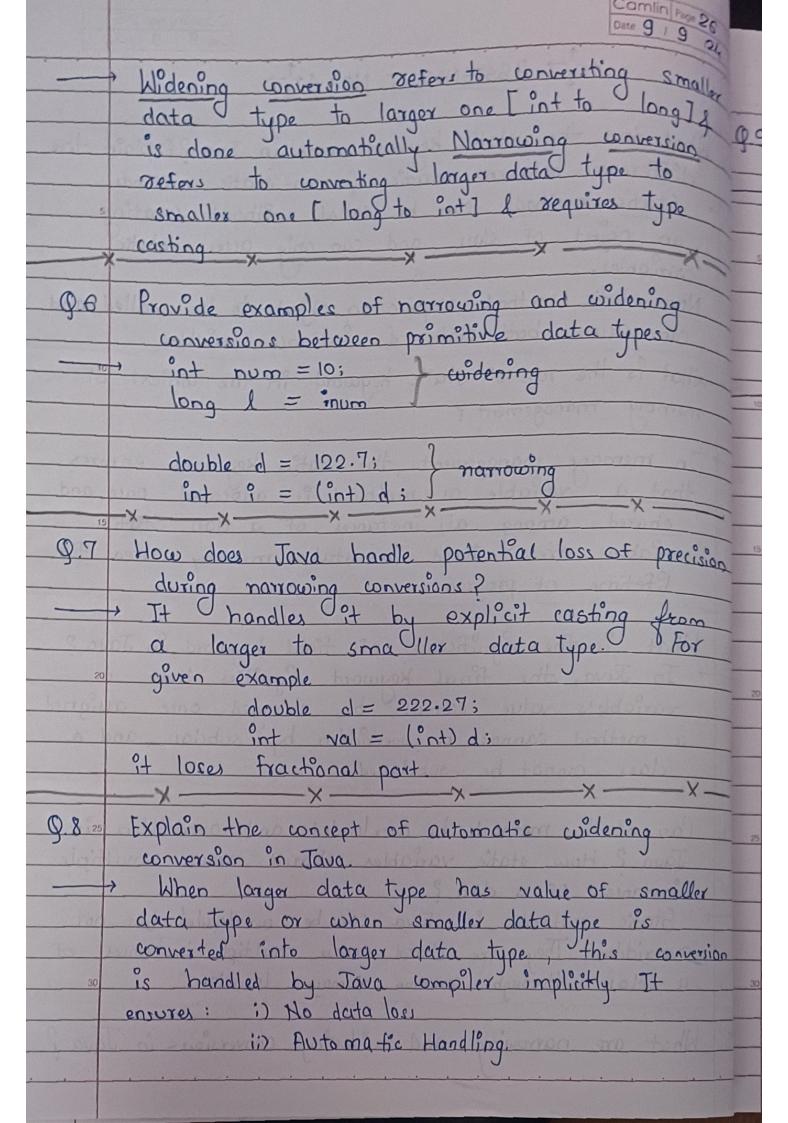
Non- static methods require an object to be called and can access both static of instance variable.

What is the role of static keyword in the context of

weward would went;

In memory management the static keyword ensures that a variable or method is allocated once and shared among all instances of a class Static variables are stored in static memory area for 10 fetime of program.

- Q3 What is the significance of final keyword in Java? variable's value cannot be changed once assigned a method cannot be overridden by subclass, and a class cannot be subclassed.
- Can static methods be overloaded and overridden in Java ? How static variables shared arrow multiple instances Of a class? Static methods in Java can be overloaded but not a day through common memory location.
- What are narrowing and widening conversions in Java?



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4	9 What are implications of norrowing & widening
	conversions on type compatability and data loss ?
	conversions on type compatability and data loss ?  * Implications of Narrowing:
	(A) Type Compatability
	(B) No Data Loss
	* Implications of Widening:
	(A) Type Compatability
	(B) No Data Loss
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