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	Assignment 4
1 to	Interview conestion
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0-	what is the role of the Static Keyword in the context
	of Memory Management.
=	- Static Keyword is non-access modifier, It is also
	ealled as class level variable
- 34	- The static keyword is used for a constant
	variable or method it is same for every instace
3.000	of a class
	- we can access non Static members inside Static
	method. using instance.
0.2	can static methods be overloaded und overridden in
	Java? How Static variables shared across multiple
	instances of a cluss?
\Rightarrow	Yes, we can overloaded Static method but cannot
	Overridden.
	- Static variables shared across multiple instances
	of a class because they belong to the class
	itself, no any specific object.
4.3	what is the Significance of the final keyword in Javal
	- Final is non-access modifier used for classes attribute
	and methods
	- when a variable declared as a final, its value
	cannot be changed, it has been initialized
	eg. final int a = 100;
	a = 200 \Rightarrow compilation error occur
	broz its value cannot be changed.

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0.4	what care narrowing and widening conversions in
\Rightarrow	· Narrawing =>
	It is also called as explicit casting
	Marrowing conversion means convert a large data
	type to a Smaller data type.
	double -> float -> long -> int -> short -> byte.
	· Widening Conversion
	- It is also called as implicit costing.
	- convert small data type to a larger data type
	byte > Short > int > long > float > double
	char → int.
- 663	Borg to 2201 toilpolog othord and 200 act 200
Q. 5	provide examples of narrowing & widening conversions
- pais	between primitive data types.
\Rightarrow	e example of narrowing conversion
	class Harrowing
73	2 public Static void main (String EJ args)
	\(\frac{1}{2}\)
	double d = 88.8;
	inti = (int)d;
	Short s = (Short)'i;
	System. out. println ("Integer:" + i);
	System. out. println ("Short: "+s);
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	· Example of widening Conversion.
	class widening
	(Social PT 0205)
	public Static void main (Stoing Morgs)
310	int i = 208;
	long 1=11;
	double d = 1;
	System. out. printin ("long !" + 1);
	System. out. println ("double:"+d);
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	hat e lang to make that to state to state
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0-6	How does Towa handle potential loss of precision
	- Java does not automatically perform narrowing
=>	conversions, it forces to explicitly cast the larger
	tupe to smaller type, ensuring that the
	programmer is aware of the potential data
	1055
0.7	Explain the concept of automatic widening conversion
	in java
\Rightarrow	- Automatic widening conversion in java refers to the process where java compiler automatically
	converts a smaller primitive data type into a
	large one during methods calls
	- This conversion is safe and no data is lost.
	- In that process Smaller type is widered to fit
	into the larger type

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Q. 8. ⇒	what are the implications of narrowing and widening conversions on type compatibility and data toss? - widening conversion is safe, there is no data
	- convert a Smaller primitive data type to larger one the larger type can accommodate all possible values
	of the Smaller type. - widening conversions are cutomatically handled the java compiles, So smaller types (int byte etc) can be assigned to larger types (eg. long, double).
	• In narrowing conversion occurred data loss, convert large primitive data type to a Smaller one this conversion is not implicit
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