W	() Casting : () Casting is
1	the coldinate of type of object
	Ob Casting: Opcasting is a type of chiect - is type casted to a bosent class about
	is type casted to a parent class object. By using the upcasting we can easily access— basent class to the cliff a methods of the
_	the World becating we can easily access -
	basent class and methods of the
_	parent class to the child class there we don't -
	We can access all the variables and the method
	class will those method of child
	with any in parent class and it
	We can access only those method of child - class which are in parent class and it will print the oversiden method.
	example: Clos Employer ?
_	Close employer?
_	
	1
	Class f TE extends Employees
	LANGE LA LAN
	1
	Class PTE Extends Employee }
-	Cars 1 (fr
\parallel	
\dashv	<u></u>

new f TE

1 1	
' '	Date.
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-)	are coming from the parent class and overrile
	are coming from the parent class and oversity
	in a Child class.
-)	
-	We are not able to accept those features which
	are specific to the child
	Upcounting -> Narsoning ->
	Upcounting - Marsonving -
	Example:
	Flanum an losing power story
	TOWNWITH WAY COST OF THE PARTY
	Hanuman is a super human and he was
	appasted to its parent class human
1,	by Rishi.
6	
2 N r	Down Carting
	for down carting we need to check the tube
	for down casting we need to check the types or else we way get Class Cast Exception.
	V ()
->	Downcasting can be considered as the reverse of Upcasting. I he are type casting an object of the parent class to the child class
	Operating. I he are type counting an object of
	the parent class to I the child class
	instance of operator: - This operator returns type if the object is of a particular
	Instance of operator - The operator returns
	Telle y vo the Object is of a particular
	Wife.
D	Court (1) Month 1 and 11
	Cost (), is Instance () method can replace the
	Unstance grant.
	V

Example: y(emp instance of FTE) fTE ft= (FTE) emp; * To restrict ambugity in parent class, we use abstract class & A Abstract Class Abstract class act as a most generic class and it give the features to its child class.

We restrict the object creation of abstract class because in notus it is too generic.

Og! Account, Coan, Product etc. Do abstract class has constructor? Yes because contructor are initialized by super keyword from the child class. Abstract class may or may not have abstract It we define abstract methods so it is must to be the make the class abstract and the child class must override abstract method otherwise child class become abstract and we cannot create its spect.

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*	Partial Implementation of Abstract class.
	If we have abstract class (Parent), it has 30 abstract methods. And our child will override 10 out of thus 2.90 our child is also becomes abstract and we have a grand child which create or implement rut of 20 methods, so it complete the abstract methods,
\rightarrow	Abstract method do not specify a body
#	Inhertance 100% abstraction :-
*	Mole of Interface; of Standard / Prototype.
	CRUD -> [Greate, Read, Update, Delete]
*-	Interface know is used to declar what to
٢	Interface does not know how to do
EX	ample: Interface Player (. Default)
	int MAX-JUMP = 100; 1) public static find in void Jump(); 1) public static void jump Void Rick();
	1

Date.____ Page No. 42 In interface, we donot have to ments on that which method is abstract because by default are abstract in interface. Also a class can witherit more than one and abstract class, possible in case of class 510 multiple intresidance using interface. There is no problem of ambiguity in multiple inheritance was using interface because In interface all the methods are abstract and there is no logic mode abstract method. When we use static then variable or class method are binder with class. Class Pasent S void main () s Paunt, var;

Parent. main();

When we create object is using her thin methods and variables are bind with abject.

Student st = new Student ();

st. main(); , st. age,

 \rightarrow

	DatePage No
>	There is no case of combiguity in case of instance variable in multiple inheritance using interface in javo because, by default all the instance variable
	in Javo because, by default all the instance variable as them are from arriving them dring class home to avoid ambiguity