Subject : Date
Inheritance
> the ability to create classes that share
the attributes and methods of existing classes.
but with more specific features.
-> Pravides code rousability
-> Used to achieve runtime polymorphism.
* Java doeint support multiple inheritance.
> Interpres doesn't parlitate inheritance [not same
-> why omitted in Java (ambiguity)
· simplicity (dynamic loading of classes)
Odiamond problem (A) D. A B common methods
(c) (c)
* Difference between this () and super().
-> this is a reference to the resent object
whereas super is a reference to access members
al agent this
> super is primarily used to britalize
base class members within derived class constructs
* Uses of this C)
* Uses of this C) > for accessing mem variables if local var
bave same name
→ constructor chaining
-> passing itself to some method.
Conned by CamScanner

Date
* Are constructors inherited? Can a subclass call
the parents clas constructor?
No cannot enherit a constructor.
-> The ability to override a superclasses.
constructor would erade empsulation.
* cannot reduce the visibility of the inherited
or overridden method.
* what is covariant return type?
-> states that return type of overriding
method can be subtype of the return type
dodared in method of superclass.
-> applicable only after Jdk 1-5 [Java 5]
colors A () class Super (dass()
f A moth name (2: 3.
BL) class subclass extends supelks
SB/C meth_name (); y
9
Polymorphism
1. 1. 1. 1. 1. 1. 1. 1. 1.
→ ability of an object to take cufferent forms > 2 types * compile time (or method overloading
* runtime (or) method overriding
-> note that method signatures should be same for both super is sub-
should be same for both super a super a classes
Scanned by CamScanner

subject: Date
* An instance method (non-static) cannot overside a
static method, and a static method cannot hide an
instance method.
class Prise & class cub Chass extends Bar & (static meth in base cls will be hidden) (earned override) (earned override) (earned display(); Chen-static meth will be overriden) (cannot hide) public void print(); public static void print();
In a subclass, we can overload the methods Noherited from superclass. (ie) neither hidden nor overriden. They are new methods unique to subclass. ** cannot overside private methods because private
methods cannot be inhorited.
* Exaption handling in overriden methods. 2 senarios: (applicable only for exaptions that are thrown) > when super class method does not doclare an exempts subclass cannot declare checked exception but
can declare unchecked exception (strithmetic or Array Ercla adoling)
> when super class method declares ar exception. subclass can either declare the same exception
> when super class method declares ar exception.