CDAC Mumbai PG-DACDate
March 2024 Assignment 6: What is method overloading in java? & explain with an example.? Method Overloading > i] A class having two or more methods with same name but with diffrent arguments then we say that those methods are overloaded. iij It is used when we want the méthods to perform similar tanks but with diff. Inputs or value. 2] What is are the sules for method overlading resolution in java? How does Java determine which overlaaded method to call? Rules for method overloading resolution Ans. The method name must be same. 2] paramters must be diff. a] Data types are diff but po-of porameters are same.

void add (ivt a, float b) void add (inta, intb) b) No-of parameters are diff but data type is same.

void add (int a, int b)

void add (int a, int b, int c) c] No. of parameter same but sequence · maiffaulsa smith a void add (int a float b)
void add (floata, int b)

with parameter when we call method from main, when java compiler find overlaaded method with the help of orgunents given in the methods. what does static keyword mean in javal explain diff. bet static & non-staticl i) Static can be block, namable, method f class.

iij If we write methoranable static it means it gets space in memory in method area before class loading a li-e. before instance is created of refrence of class. Buil Diff statico bollon son statico Belong to class belong to abject can accessed w/o creating object · creating object. shared by all object each object has Can static methodo be overloaded & over sidden in java? How static variable share across multiple instance Yes, static methods can be overless but can't overnide as it is not showing sun time polymorphism.

static variable are shared access multiple instances of class because there is only, one copy of vaniable for entire class. What is the zole of static keyword is the context of memory management? i) static variable are shared among all instances, reduces the amount of memory required.

2] preserve databeth func calls.

3] Improve program efficiency. what is the significance of final keyword in java?

The final knyword give security that no one can modify our classes, variables of methods Aus 27 final variable cannot be assigned 3] final class cannot be extended or subclassed. Can final method be oversidder in a subclass? How does the final keyword affect variable, method, & classes in jara? i) No, final method cannot be oversidden in a subclass. when method is declared as final in a superclass. it cannot be overridden by any of its subclass. This is because the final key keyword prevents
the method from being over ridden.

8] What does the this keyword represent in Java? How is the this keyword used in construction & methods? if The this keyword in java is a Special keyword that refers to the current Object. ii] The this keywood can be used in constructor of methods to access the instance variable & methods of the current the object. 9] What are covering narrowing & widening conversion in java? Widewing conversion is an implicit conversion, which means that it is performed automatically by the compiler. It occurs when a value of a smaller data type is assigned to a variable of a larger data type. Naccowing convention is an em explicit conversion. It occurs when a value of a larger data type is assigned.

