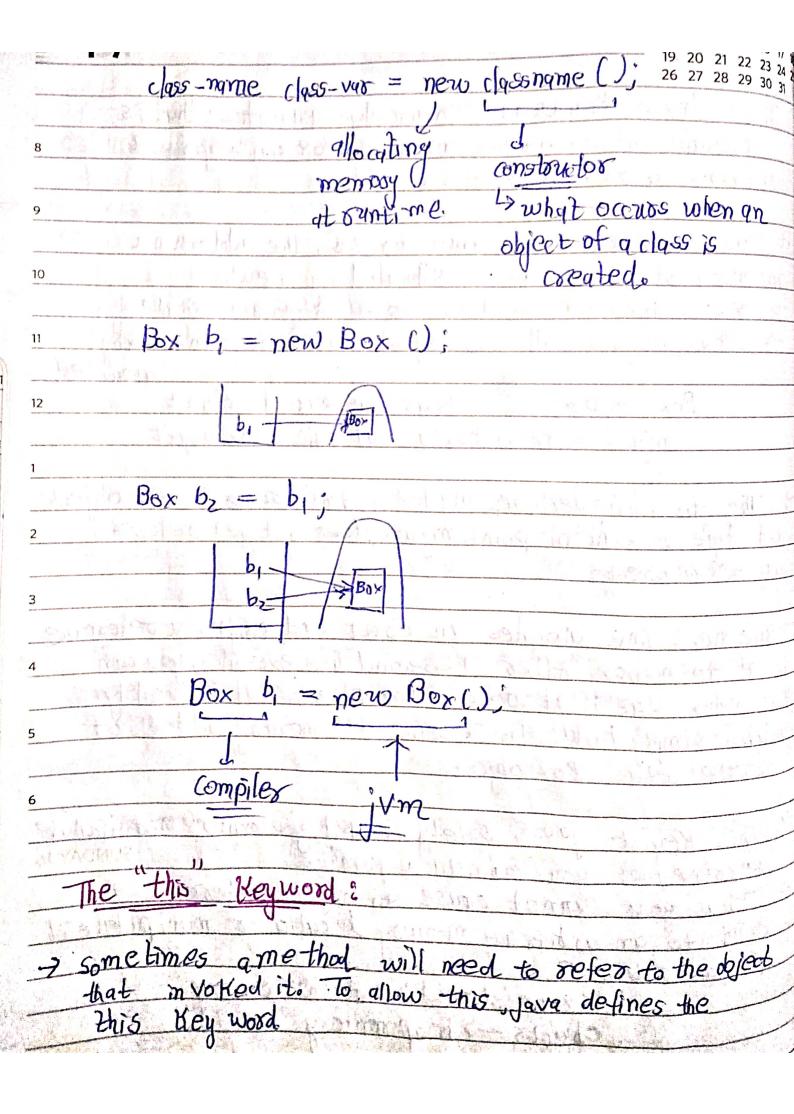
したおおります。こ (227-139) WK 33 FRIDAY • AUGUST • 2020 Object Oriented Brograming 12 13 14 15 16 17 19 20 21 22 23 24 26 27 28 29 30 31 A Class is a template for an object, and an objectis ar Instance of a class. > A class cocates a new datatype that can be used to Cheate objects Class -> logical constouct. Object > Physical reglity (occupies some space in memory) Objects State Identity Behaviour -> Valup-from -> distinguishes -> effect of data -type its dolotyPe one Object from operation another. The dot operator links the name of the object with the name of an instance variable. Atthough commonly referred to as the dot operator, I the form speki-fication for java categorizes he 'as a separator instance c -namp Mariaple age Meet Harsh ference variable Student

23 24 25 26 27 The 'new' Keywood dynamically allocates (that is allorales at suntimes memory-los an object 2 revons a reference to it. on This orterence is more or less, the addres in memory of the object allocated by new. -> This reference is then stored in the variable > Thus, in java, all class objects must be dynamically Box mybox; //dalaxe reference to object mybox = new Box(): //allocate a Box object The first line declares my box as a reference to an object of tyle Box. Atthis point, my box, closs not yet refer to an actual object. -> The next line allocates an object and assigns a reference to it to mybox. After the second line executes, you can the mybox las if it were a Box object. But in reality mybox simply holds, in essence, the memory address of I the actual Box objects The Key to java's safety is that you cannot manipulate selections as you can actual pointers. SUNDAY 16 Thus you cannot couse an object reference to the an interest. the an integer. 1 4) are stored in stack memory objects -> heap memory



this can be used inside any method to the current object. That is this is always a reference to the object on which the method was invoked. final Keywood ? A field can be deduced as final. Doing so Prevents its contents from being modified, making it essentially a constant of this means that you must mitiglize a final field when it -> It is a common coding convention to choose all ufferrage identifiers for final fields: final int FINAL = 2; instance variables are primitive types, not reference types If an instance variable of a reference type has
the final modifier, the value of that instance variable
the reference of an object, will never change - it will always refer to the same object - but the value of the object itself can change. The finalize () Method: object is just about to be reclaimed by the garbage

Constructors :-

Solve defined, the constructor is automatically called when the object is exequed, befor the new operator of completes.

Completes.

Constanctors look a little strange because they have in no return type, not even void. This is because the implicit return type of a class constructor is the inclass type itself.

Thereof the mew operator

Particle of a class constructor is the inclass type itself.

Return the constructor is automatically called the new operator.

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