CSC 254	
NOTES	
Week 09	Methods

Name	(Print):	
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This assignment contains 4 pages (including this page) and 33 questions. Check to see if any pages are missing.

This week's notes are based on the in-class session

1. What is a method?

- 2. Why are all functions called methods in Java? (probably all are true, but which one is objectively accurate)
 - Because Java is weird
 - It's just a style thing
 - In Java all functions must be in a method
 - To make Java look different than C++
- 3. What are three advantages of using methods?
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 - lacktriangle
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- 4. How is a static method called?
- 5. Give an example of how parseInt in class Integer would be called on a string called number.
- 6. How is a non-static method called?
- 7. Give an example of how length in class String would be called on a string called number.
- 8. When a static method is called *fom within its own class* how can it be called?



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9.	Does the method alluded to in the previous question also apply to non-static methods?
10.	What is the syntax for creating a method?
11.	Write a method named printBar. It takes no arguments and has no return value. It only prints =========.
12.	Write a method named greeting. It takes a string argument and has no return value. It only prints ====================================
13.	Write a method named square. It takes a double as an argument and returns a double. It only prints =========.
1/	What is the difference between a parameter and an argument?

14. What is the difference between a parameter and an argument? hint: It might help if you think of "parameter" as "formal paraeter."



- 15. What is the difference between public and private?
- 16. So far, all of our course we have only had a single class in our programs. Does the difference between public and private matter right now?
- 17. What is the return type of a method that does not return a value?
- 18. How is a method that returns a value called differently than a function that does not return a value?
- 19. Does a method that calls a function have to use the return value, or may it be used like a regular statement if we want to ignore the return value? (Try it and find out if you need to)
- 20. What is "Call by value?" Why is it also called "Call by copy?"
- 21. What is a "Call by reference?"
- 22. "Java only has call by value"
 - Absolutely True with no fine print
 - False
 - Technically && Absolutely True, but with a huge loophole in the fine print.
- 23. What is the "method signature?"
- 24. Are the formal parameters part of the method signature?
- 25. Is the return type part of the method signature
- 26. What is "method overloading?"
- 27. What is the relationship between the method signature and method overloading?



- 28. Can a method be overloaded if the only difference is the return type? Explain why (which should be pretty obvious after the last three questions)
- 29. How does scope apply to methods?
- 30. What are "local variables?"
- 31. Can two different methods have the same names as their formal parameters?
- 32. Can a method have a parameter with the same name as one used in the main() method?
- 33. Hey, wait a minute. Is main(String[] args) a method?