Year 11 Computer Science

Topic 1 - Input/Output, Data Types, and Variables

Tutorial 1

	When	we wish	to output	a value to	the console,	we use the	statemer
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System.out.print(insertValueThatYouWishToPrintHere) to print on the same line. System.out.println(insertValueThatYouWishToPrintHere) to print on different lines.

In intelliJ, a neat shortcut for the print statement is to type "sout" and press enter.

- Declare and initialize a variable of type int called myInt. Initialize it to the value 10.
 Declare and initialize a variable of type int called myInt2. Initialize it to the value 4.
- 3. Declare and initialize a variable of type **double** called **myDouble**. Initialize it to the value **2.5**
- 4. Declare and initialize a variable of type **char** called **myChar**. Initialize it to the value **A**.

5. Print out the expression **myInt** divided by **myDouble**. What result do you get?

- 4.06. Print out the expression myInt divided by myInt2. What result do you get?
- 2
- 7. Cast the variable myDouble to an int and store it in a variable called myInt3.
- 8. Print the variable **myInt3**. What result do you get?

2

9. What *type* of casting is this an example of?

Narrowing casting

10. Print the statement 12/0 . What result do you get?
Exception in thread "main" java.lang.ArithmeticException: / by zero at CS_sem2.main(CS_sem2.java:12)
11. Print the statement 12.0/0 . What result do you get?
Infinity
12. Declare a variable called myDouble2 and initialize it to 4.6.
13. Declare a variable called myDouble3 and initialize it to 4.4.
14. Declare a variable called myDouble4 and initialize it to 4.5.
15. Declare a variable called myChar2 and initialize it to 'd'.
16. Declare a variable called myInt4 and initialize it to 66.
17. Add 0.5 to the variable called myDouble2 and cast it to an int . Print this value. What result do you get?
5
18. Add 0.5 to the variable called myDouble3 and cast it to an int . Print this value. What result do you get?
4
19. Add 0.5 to the variable called myDouble4 and cast it to an int . Print this value. What result do you get?
5
20. What did you learn from tasks 11 - 16?

	How to intitalize a variable (??)
21. (Cast myChar to an int and print this value. What result do you get?
	100
22. (Cast myInt to a char and print this value. What result do you get?
	В
23. [Declare and initialize a variable of type int called myInt3 to the value of 7 .
24. F	Print the variable myInt . What result did you get?
	66
25. F	Print myInt++ . What result did you get?
	66
26. F	Print the variable myInt . What result did you get?
	67
27. F	Print ++myInt . What result did you get?
	68
28. \	What did you learn from tasks 18 - 21 ?
	How to cast char to int.