## Variables, values, types, expressions, conditionals, and loops

1) What does the following code snippets print and justify your answer? (Note: Please try to answer these yourself first before running them in the Scala shell) a. val Int = 10 bb = "funny" println(bb) **b.** val dd: Double = 9.99 dd = 10.01println(dd) c. println(true && false) **d.** println(5 < 6 && 10 == 10) e. println("frank" | | true) **f.** val f = "4.44".toFloat println(f.getClass) g. println(77.toString == "77") h. val number =  $\{val x = 2 * 2; x + 40\}$ println(number) **i.** val ttt = { val first = "katy" s"\$first perry" } println(ttt) **j.** var band = { var name = "sublime" name println(name) k. if (true) { "it is true" } else { "i'm confused" }

2) Implement Scala code to print the following:

4

6 8

10

3) Write the output generated by the below code snippet

- 4) Implement Scala code to display the count of numbers between 1 and 100 not divisible by 2, 3 and 5.
- 5) Implement Scala code to print all possible 3-digit numbers with combinations of 1, 2 and 3.
- 6) Implement Scala code to print the following pattern:

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