




COMP90041 Week1 - 6 Checklist (Self-Assessment)

| ID | Question | Answer |  |  |  |
|----|---|--|---|---|---|
| 0 | Is Java a cup of coffee or a programming language? | Java is an object-oriented programming language. | ✓ | | |
| 1 | Primitive and Reference type | | | | |
| 2 | Java type casting | | | | |
| 3 | Is a String variable primitive or reference type? | | | | |
| 4 | print, println, printf | | | | |
| 5 | Both Scanner and command line argument allow us to take input from users. Difference? | | | | |
| 6 | next() VS nextLine() in Scanner | | | | |
| 7 | Branching: If else VS Switch | | | | |
| 8 | Loops: while VS do while VS for loop | | | | |
| 9 | Explain what are classes and objects? What is a constructor for? How can you use a constructor? Are you able to write your own classes till now? | | | | |
| 10 | Explain differences between static method and non-static method. | | | | |
| 11 | Is it allowed in Java to call a non-static method from inside a static method in the same class and vice versa? | | | | |
| 12 | Explain differences between void methods and methods that return results. Explain differences between parameter and argument | | | | |
| 13 | What is method overloading? Talk to your friends about one pitfall in method overloading. | | | | |
| 14 | Explain public and private that can be a prefix to instance variables and methods. What is a local variable and where can it be used? | | | | |
| 15 | How do we use the result returned from a method (think about hyperfunctions/helper functions)? In general, think about how you will call a function from different places in a same class or even from different classes. | | | | |
| 16 | What is the special constant null? | | | | |
| 17 | Explain the final keyword | | | | |
| 18 | Explain this keyword | | | | |
| 19 | Accessor and mutator methods We do we need them? | | | | |
| 20 | Explain what immutable objects are | | | | |