**Q2**

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| **Java** | **Scala** |
| General-purpose object-oriented language | Combination of both object-oriented and functional programming. (Multi Paradigm Programming Language) |
| More readability | Less readability than java |
| The process of compiling source code into byte code is fast. | The process of compiling source code into byte code is slower than java. |
| The Scala compiler has a built-in tail recursion optimization feature. | No tail recursive optimization |
| Backward compatible (allows code to run on older and newer versions also without any error). | Not backward compatible (the code runs in the latest version only). |
| Does not support operator overloading. | Supports for operator overloading. |
| Treats every function as an object. | Every method or function is treated as a variable. |
| Statically typed Language | Statically typed Language |