**DAY:-1**

**Q1) Difference between Statically Typed and Dynamically Typed:**

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| **Statically Typed** | **Dynamically Typed** |
| * Statically-typed, if it follows type checking during compilation. So, every detail about the variables and all the data types must be known before we do the compiling process. | * dynamically typed, if type checking takes place while the program runs (run-time). In this type of language, there is no need to specify the data type of each variable while writing code. |
| * In this type of language, once a variable is assigned a type, it can’t be assigned to some other variable of a different type. | * It means that you can write pretty quickly since you do not have to specify types every time. Some languages do allow you to provide type information but do not require it. |
| * In this type we not able to send a data dynamically. Only possible to assign a value for all variable directly. | * In this type we able to send a data dynamically. And also possible to assign a value for all variable directly. |
| * Some examples of statically-typed languages are Java, C, C++ | * Some examples of dynamically-typed languages are Python, JavaScript, PHP . |

**Q2) Different Between the Scripting Language and Programming Language:**

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| **Scripting Language** | **Programming Language** |
| * The scripting languages are interpreter-based languages. | * The programming languages are compiler-based languages. |
| * The scripting languages help in combining the existing components of an application | * The programming languages help in developing anything from scratch. |
| * A user needs to run scripting languages inside an existing program. Thus, it’s program-dependent | * Programming languages are program-independent. |
| * Scripting languages convert high-level instructions into machine language. | * Programming languages help in converting the full program into the machine language (at once). |
| * These are very easy to use and easy to write. | * These are pretty complex in terms of writing and usage. |
| * Some examples of Scripting Languages are Python, JavaScript, PHP. | * Some examples of Programming Languages are Java, C, C++ |