1.

**Five common frameworks of scala** are**:**

* **Akka HTTP** a powerful, secure web framework
* [**Lift**](https://github.com/lift/framework) is a highly secure and scalable framework.
* **Scalatra** is an open source framework that is functionally a port of Ruby’s Sinatra
* [**Play Framework**](https://www.playframework.com/) The high velocity web framework for Java and Scala
* **Scalate** a templating engine,appears to build with Maven or sbt

2.

**In**[**Scala**](https://www.geeksforgeeks.org/introduction-to-scala/)**there are two types of variables**:

* Mutable Variables
* Immutable Variables

**Mutable Variable:** are variable that allow you to change a value after the declaration of a variable. They are defined by using the **var** keyword.

In Scala data type is treated as objects that why the first the letter of data type must be in capital letter

Example:

**var** Variable\_name: Data\_type = "value";

**var** name: **S**tring = "Hi ";

**Immutable Variable:**are variables that do not allow you to change a value after the declaration of a variable. Immutable variables are defined by using the **val** keyword. Because the data type is treated as objects ,the first letter of data type must always be in capital letter

Example:

**val** name: **S**tring = "Hi ";

3.

**8 of the advantages of Scala as hybrid programming language are** :

* Scala is highly scalable, useful for building fault-tolerant, highly concurrent systems
* It’s ideal for data analytics when supported by tools like Apache Spar

1. Scala has an accurate language structure, disposing of standard code. Projects written in Scala require less code than comparable projects written in Java
2. It is both an both an object-oriented language and a functional language.. This combination settles Scala as the right decision for web development
3. You can utilize Scala to execute Java code
4. Scala utilizes an expressive composing framework that guarantees measurable reflection is secure and consistent
5. It's not difficult to learn, particularly for software engineers with an article arranged foundation with Java or comparative language
6. Scala is highly adaptable, useful for building fault-tolerant,exceptionally simultaneous systems
7. It's great for data analytics when upheld by tool like Apache Spark

4.

**2 operators in Scala are :**

* Arithmetic Operators
* **Relational Operators**

5.

**In Scala a Closure is**

**A closure** are functions which utilizes at least one free variables and return value depends on the value of one or more variables declared outside this function.

6.

**import java.util.Calendar;**

**object TrackTimeClass {**

**def main(args: Array[String]) {**

**var track = Calendar.getInstance()**

**var currentTime = track.getTime()**

**var currentYear = Calendar.getInstance();**

**var currentMonth = track.getTime()**

**var currentDate = track.getTime()**

**var currentMinute = Calendar.getInstance();**

**var currentSecond = Calendar.getInstance();**

**println("current year,Month and Time are: "+currentTime)**

**println("Current Minute is "+track.get(Calendar.MINUTE))**

**println("Current Seconds is "+ track.get(Calendar.SECOND))**

**}**

**}**

7. a.

**import Array.\_**

**object Arrays**

**{**

**def main(args: Array[String]) {**

**var integer = range(1,6)**

**// Print all the array elements**

**for ( x <- integer )**

**{**

**println (x )**

**}**

**}**

**}**

**7.b.**

**import java.io.IOException**

**object Arrays**

**{**

**def main(args: Array[String])**

**{**

**try**

**{**

**val integer = Array(1,2,3,4,5)**

**}**

**catch**

**{**

**case ex: ArithmeticException =>**

**{**

**println("Arithmetic Exception occurred.")**

**}**

**}**

**finally**

**{**

**println("The Arithmetic Exception occured, .")**

**}**

**}**

**}**

**REFERENCES**

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