23/10/24

Scala

Scala is a static typed (compile time check) language, supports
00 PS & functional programming.

In intellij ome we areate a project, we will have the option to create a new scale class (or) obj, obj creates a singleton abject 0' as an instance of en ananymous class, class defines a class just like Java, C+7.

Basirs

Valnes

-vals are val X: Int = 7

immutable This is optional

immutable

val y = 'hella'

- Ton float & long we have to suffix with f& L, similarts Jowa with f& L, Variables (mutable) Saphanal var x: Int = 4 x = 6 /1 side effects Side effects I anything that offerts
the state ontride its local
ent, such as modifying variables, I/o
eps, changing mituble obje, They return writs If in scala is not a statement unlike Iava, Python, If is an expression in Scala -) Cade blacks are expressions Instructions VS Expressions -) Instructions are executed (Sour, Tyllon)
-) Expressions are evaluated (Scala) Type Interence In Scala the compiler does type Inference automatically but it will fail if there is imbiguity like IF exps with diff types, seureive functions etc. Tail Recussion Scala supports TCO (Tail Call optimisation) unlike Ina, Python, this prevents increase in call stack size.