Streams (Java 8)

& Lambdas (Java 8)

Lambda Expression (lambda functions

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Lambda Expression)

L) Anonymous Function
L) Code > more compact & readable.

Coac more compa

Syntax

( parameters ) → expression

(parameters) > (xpression)

(Int a, Int b)

A +b,

Body

amb da

operator

int Sum (into int b)

net a+b;?

Pavams

Often used with Functional Interface an interface that contains a Single abstract Method. Functional Interface in Java. More -() Compave () > Function Java. -> Predicate -> Consumer -> Supplier Runnable Lo run()

Lallable (all()

## Java 8 Streams

Stream in Jova 1s a Wrapper around a Data Source.

in functional & declarative way

Frocedual Prog

→ OOPS /

-> functional | Declarative -> Declare what to do, not how to do.

## Intermediate obs

$$(\underline{X} \rightarrow \underline{2} \times \underline{)}$$

multiple of 10 and double them.

Common Fundional Interface

Prediate <T7

boolean test (Tt)

-used for fitering/maturing
-input is one obj, output is boolean.

Consumer.

Void accept (T+)

Example:

3 Supplier

T get()

Thut type

Inhut type

Punch on 
$$\langle T | R \rangle$$

R apply  $\langle T t \rangle$ 

Integer

Function  $\langle String, \gamma \rangle = S \Rightarrow S \cdot length()$ 

Integer

 $f \cdot apply (=)$