Lecture 1 - Introduction What is Programming? Human 1 English Human 2 Abhishek Hindi Ashok Human3 Howaseyon? Computer > Binary.

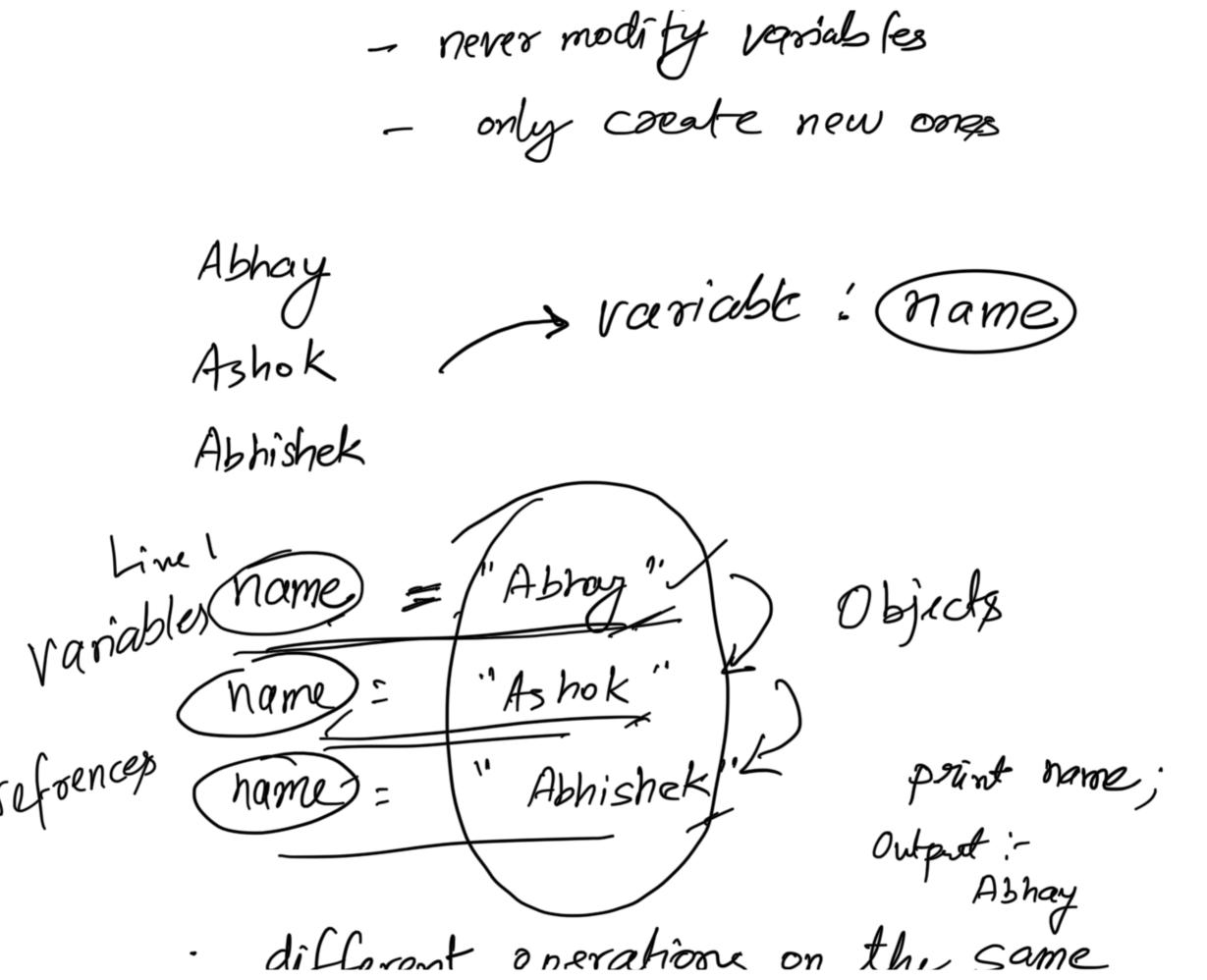
Abhay Jova / C++ (0,1)

"Howareyou!"; Programming is a way to instruct the Computer to perform various task.

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| Types of Programming La                        | ngugges  |
|--|----------|
| Procedural Functional                          | Object   |
| Procedural                                     | Oviented |
| · well-structured                              |          |
| · order (Systematic). · functions and commands |          |
| Functional                                     |          |
| pure functions                                 |          |



Set of data 3. Object Oriented · Revolves ground Objects · Code + Data\_ develop, debug, neuse, maintain Q1. Can you name a language which is of all these three types? - Python

Java -> Procedural + OOP Dynamic schanging, Static > still.

Static > not changing
fixed String = "Abhay"; "Abhay" datatypes declare before use. String, int, char No need to declare datatyle String name; datatype of Variables p1. int (a); a=15; a: "Abhay"

122 - a:10 > Error: String Letatype Required no datatype is found is it a dyamamic Essos s.o.p (a):

More information

suntime 3. More Control Save time in vonting code. function add (a, b)

definition int function paint c; (unction call

Output:

Add 4242 and 2634

add (4242, 2634)

Memory Management

2 types of memory 1. Stack 2. Heap

declare a variable int advernace object Reference mossible the object

is showed in object of a stack référence varible int a = "Abhay" Stack Stack on Exerciscople variable Introduction to

Data Structure

Algorithm

Sinta = 10 object

Suff

Voir Data Strudure is a way collecting and organising Abhay name structies

and he is (14) years old Sint variable Print this: "Abhay 's age 15 19." String name = "Abhay"; int age = 19: System) (out print(n) (" int add (a, 5) }

> point > System. out println (name + "s age is" + Output: - cobindue
Abhay's age is 19 Data Standhure -> OOPs Codet

Data Standbure -> OOPs Godet
data

Class

Standbure

Simple Language DS are structured program store ordered elements order operation ASC - 1, 2, 2, 4, 5, 6, 7,8 DES -8,7,6,5,7,3,2,1

Find an element 5 în an array 1 to 100,000 unordered -> Difficult ordered -> less difficult [I], 3 < 5 to 100,000

Worst Case Scenaroio 7000 7 124, 9126, 10000°, .... (7000) 1,00,000 70007 7000 T 7,00,000) Search 7000

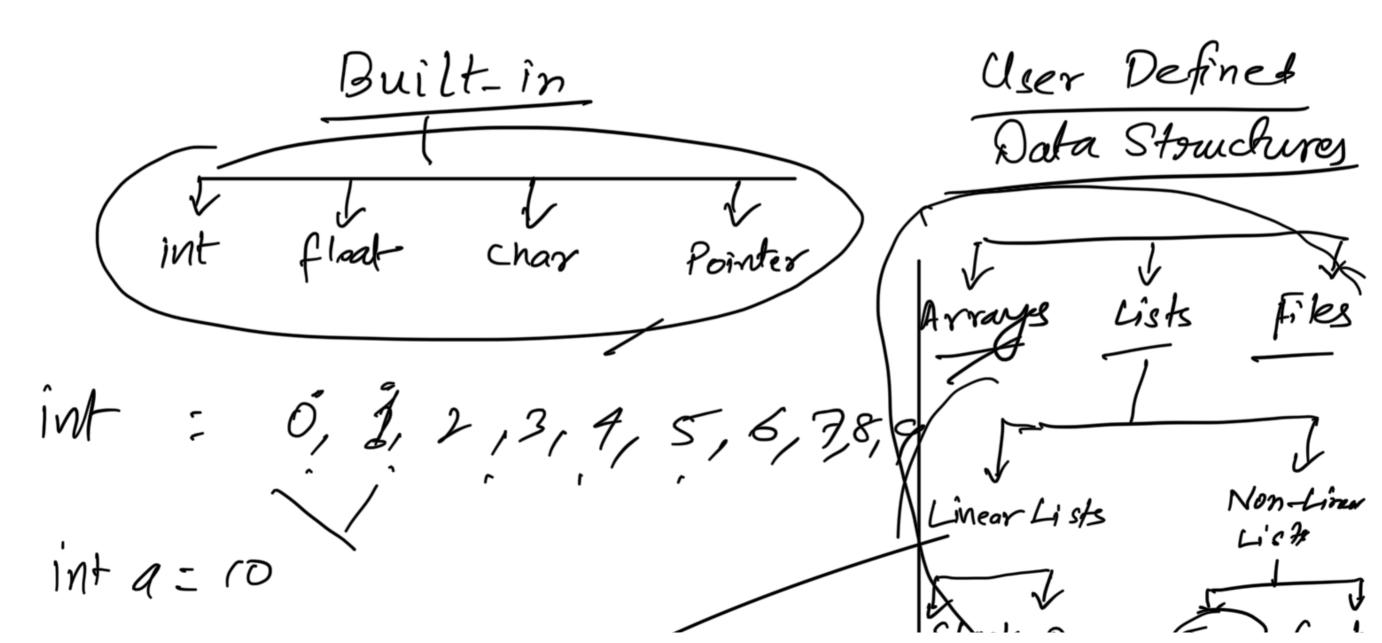
Jooo > 100,000

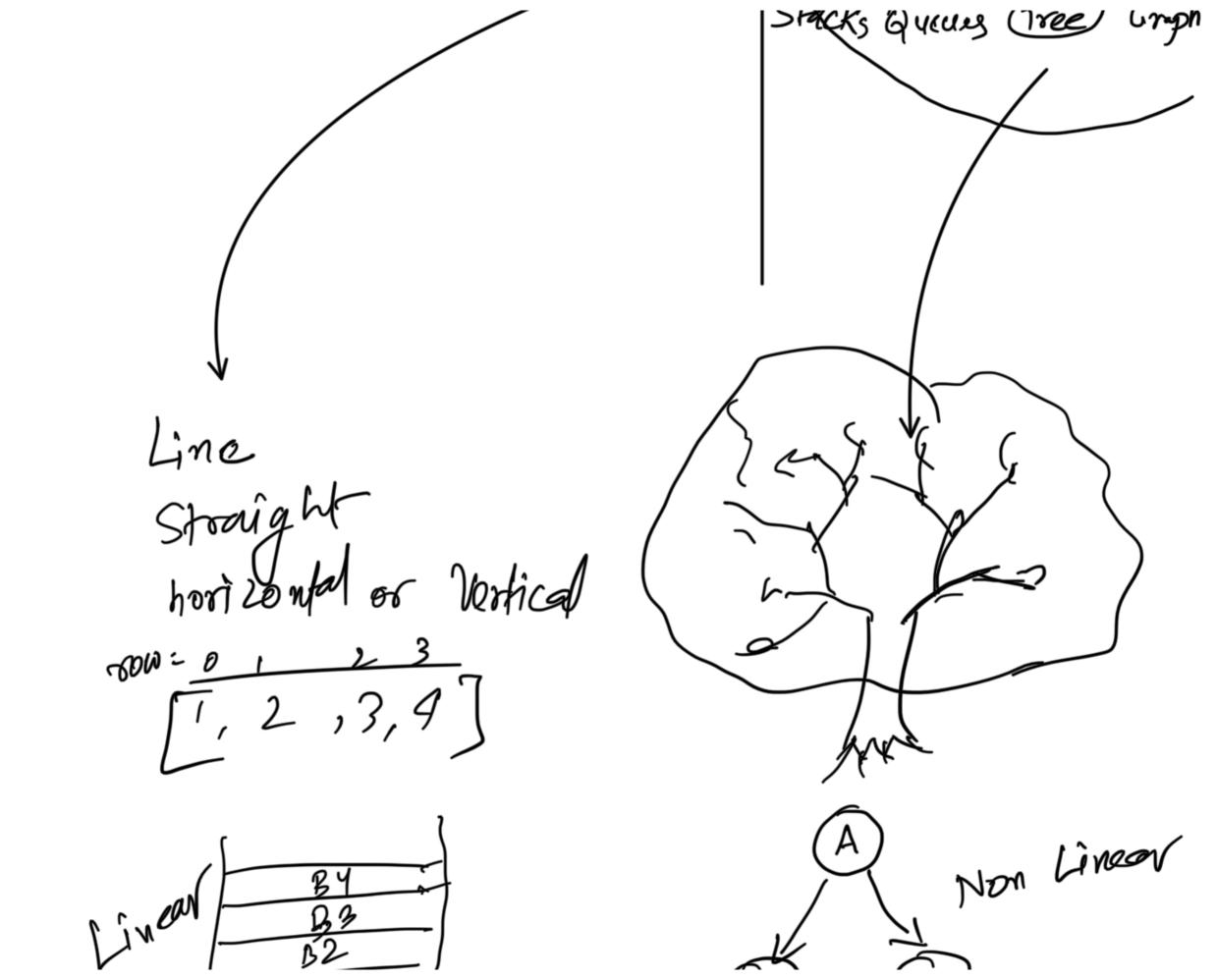
1 million sec 7000 sec> 1 sec = 1 aperation Amazon Product: TV TV. 7000 Unordered / million) Total panducks: ~ ( | million sec) pordered

7000 Sec



## Data Stomecture





BI Stack Country Queue Non Linear χ

Algorithm

Logic: - To point the sum of 2 integers - We will add these two . A store it in a variable point that variable 1. (int a = 10;
int b = 20;

Lecture 2

- Vs Code

- Intellij

Lecture 2

Tristall

Next we will learn

- First Java Program

- flow of the pagam

- Java Into

- methods (function)