24/1/25. Java > 90%. Companies USes Java from fortune 500 companies. > Fastest language. -> mostly used in Banking Sectors. -> highlevel, robust, secured and Object oriented Programming language. > Till 1995, called as "Oak". "oak Already crusts -> Team members suggested new names like dynamic", revolutionary "i" Silk", etc. In a copper shap they name was bornias "Java". (Java Island first coffee produced Island) -) James biosting & team members originally developed at "Sun microsystem". >> Jan 23, 1996 released JDK 1.0. write once , Run Anywhere (WORA). nou 26, 2006 released Jum. Fava used in: > Destrop, web, mobile Applications > Robotics. -> blames. > Banking. Types of Java applications! is standarane application, is mobile Application. + web Apparation. > Enterprise Appulation Features of Jours! Ssimple Sogramic > opted oriental -> Robogt > butone -> highperformance. > platform independent > multitur eadel. -> secured. > Distributed (

How Java coords,compiler -> Ryte > coole > contrater 1 wholes (1) STC Coole @ compiles the code. · Java (file) checks for Synten . Text days trirows Errors if violates syntax. 3) Jana Byte corde is platform independent Pary device capable of running sava will understand & translak Java For James virtual machine vurs the Jama byte lade Jawa platform independent: ( Java) fite. compiler Jawa byte Come Linuse Jo Jo MUEMONDONA (wirdows Linux Andreo &

Page. No.

JUIN: (Java Virtual Machine):
-> Rea Riens Jawa byte coole
-> For different systems (linux, windows, made)
> class looder + run time + Escecution Engine.
JRE: (Jours Runtime Environment):-
-> Provides libraries; Jun & other componente
-) 2 Key tech!
D'Jana pugin:
2) Jawa web start!
-> TRE glocan't contain tools wire complienss
debuggers.
JDK: (Java Development Kit):-
-) Support of TRE

## Java oops concepts: Dobted: - read entity like human, along Eletc... - Steele & behavior.

> contains TRE + compilers + aubugger,

- 2) class: collection of objects'
   blue prints.
- 3) Inheritance + object inherits properties from other objects.
- +) polynorphism having multiple forms.
  - 5) Encorpsielation Binding together b) Abstraction - hiding internal details.

1) hello. tana
class hollof
Public static void main (String augst)
System. Out. Print ("hello");
g Joual Hollo, towa.
Coole > Jana, Byfe Coole > Jun)
Execute)
Class & Object.
class: bureprint that describes the State behavior
of an object.
Object: It has state & behavior
Ere: human has states take height weight
skin tone,
walking, sleeping, working
object:
Human rakosh = rew Human ();
Human Southish = new Human ();
Page. No.

public class Human bloat height? 6 lood weight; void getweight() ( void get reignt it Anatorny of a JAVA Class! -- when Jum runs it tooks for main () method. - It executes everything inside the main nothed. Elample: Synters for class Test (public) (class) can access 5 void main (String angs[] Public open brack Static box Test class Jum dixels credition open brack for from here main method System out Printin ("Hi !! closing brace for of Statement Should end with servicelor. Print the o (p. closing brace for Test class. Runtime operations: class file class torder -> used to land class biles. Byte case revision -> checks code for violations. Year byte code Stream to Excesse intructions. Rus times -> 010111 Surdware 001110 0 10110

5

Java raining Corrections!
> Rules to range variables 1 class & etc.
> Rules to range variables 1 class & ofc.
Conventions!
O class name: Stant with upportase letter &
Ex: Human be a nown (canacase)
@ Interface; Start with uppercase contents
Ese: Russable be an adjective ( comercoise).
(3) morrod: Start with opportude (contestaise)
Ex. Print (). be a verb ( Laund came).
(h) variable & package; Start with lowercase variat
(5) Constants: An characters in upportate.
Ex: STATUS.
Variables! Sout (1926) startout.
-> Helps to Identify the things.
with value that can be charged
How to declare a variable:
palatype varname = value;
Ex: char Letter = a!
m2 int deposity
deposit = $1000$ ;
-> Vanable and containing that will are
+ variable owe containers, that will help you to store the doda.
The acute.
No.

Variable Naming Convertions! -
Exizent contain white space. (xi).
Devariable can't begun with special characteries: "not & deposit = 1000; ("x")
Est: rounk & Rank "x"  (3) Recommended value.  3 variable name should begin with lowercase.  Est: int dep = 1000;
Memory Creations! - primitive sould types!
DByte > 8 bits.  Dyte a=7;  Detail > 16 bits.  Dococolli  Dirang representation  Object > 32 bits.  Object > 64 bits.
Reference variables!
Account mankface = new Accounted;  Stepl: Declaring as reference variable;  + rentace is reference variable;  + Jun Allocation space for reg variable.  Step2: create an object  + Jun aucrases space for rewaccount abject  in heap.
Step 3: Link Object reference & Object.
rankher Account object

O class holla
Public Static void moun (String args 13)
int [Container] = 67: variable
int Containor of - (John)
string John = "J": variable 3
3 (40pm) - 0 1
System. out. Print (conteuner);
System. out. Print (Containers);
3.
2 Applifico or torre
2) Addition of two numbers:
class hollof
public State upid moun (,5 thing orgs[]){
int a = 10;
int b = 20;
System. out. Print (a+6);
System . out. print ("a+6");
3
3