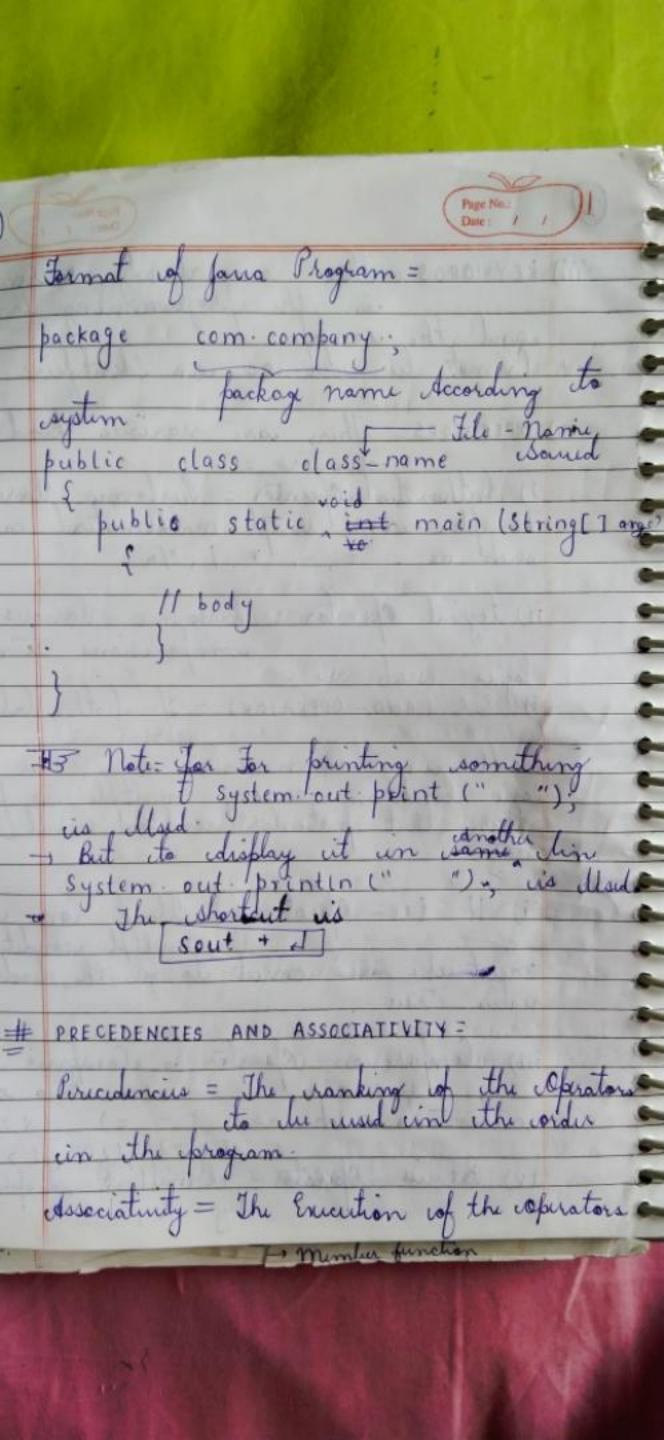
JAVA il) of I TERALS = oftant nahus ito the mari-- mumber function

iii) KEYWORDS: These care calready crescrand a cin the programming language and the compiler language and the compiler iv) OPERATORS: There are various kind of coperators:

1) drithmetic obserator: Performs clarious complex and winth mathematical icalculations auch as: +, -, *, 1, 1/0 ii) degical oberator = Purforms Various legic comparisions terminis logics such cas =

i) && (AND-OPERATOR) = If whoth Values, correct them configurable igning choolean value true less of correct them configuration camong multiple is false they that particular condition will below note must the true correct to get the hoolian iii) Comparison Operator = Comparis dutus cor mo ceredintials esuch eas = (==), (<=), (<=), (x) Betuis Operator - compallist display dy d, 1.



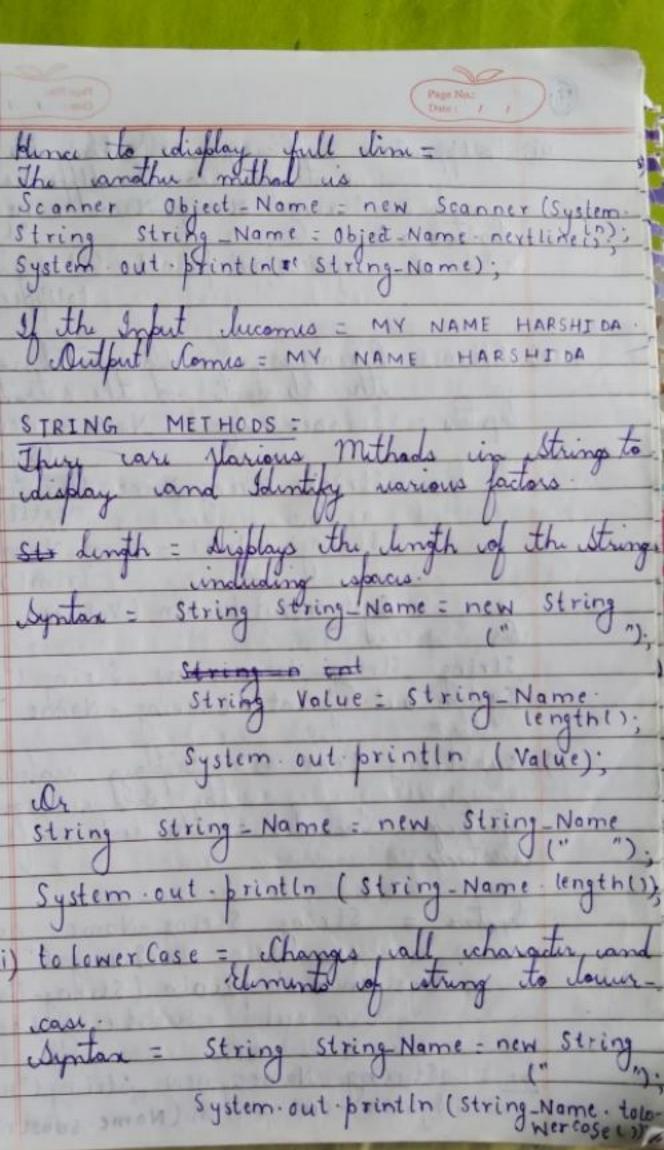
4 eaccording to its farcidines The higher the forcidine the ranks The percention will start from lift to Statisfies = recording to the realist, ith datatypes -> & Integer edatatife will igne Integer Value Integer + Float, = Float Charagter + Intiger = - long + Intiger = long forma, is not, as flished is c++ ion other Colint - Orinted Programming INCREMENT AND DECREMENT, OPERATORS -, ++1; + First I will get from the gets Incremented and then gets truetted

Page No.; Date: / / B = I + +

Here, first Value of I is Assigned

B cand then Incremented. → Klire, first Malue of I is Incremented then assigned to B. Note: For Character etype nalices calso t The combination of characters.

It has especial emplored they Jana. clan be rachared in two types = i) String String name = " ";
ii) String String name = new String (" To display strings there are two types) Scanner Object-Name = new Scanner (Syste String String-name = Object - name . next () System. out. print (Gtring - Nome); Pure of Infact is = MY NAME IS HARSHIDE fr member function



to Upper Case = Changes all Elements of the string to the Uppercase.

String string - Name = new String ("); Syntax System out println (string Name Remains the illnucanted, ispace of the Eliments of the string. Scanner Object - Name - new Scanne (System.in)) Trim Syntax = String String-Nome - Harshida.
nextline (String Value 1 = Object-Name.
Trim(); System out printe (Value); String String-Name = new String (" ").

System. Out. println(string-Name Trime) substring (int A) = Display nature from the starting, Includes in the realers from the estarting String String - Name = new string (" "). Syntax_ System.out. printe (Streng-Name. substring (int A)); String Name: new String ("HARSHTIME System out printn (Name substring (3))

content = RSHIDA. (1) substring (inta, int B) = Includes the Ulment of the starting India edentar = String String-Name = new string 5 System out print In 1 String - Nome. En - String Name = new String ("HARSHIDA")

System out println (Name substrings) content = RSHI. VII) · char At It represents character of the espatar = string string - Name =" ".

System out println (string - Name.

Charat (int) System out printin (string Name:

System out printin (string Name:
charAt (3)) VIII) indexOF = Represents the Index of particular system out print in (String Name = ", system out print in (String Name . in out of the string of the st

String Names "HARSHINA", Systemout println (Name indexOF ("A")) - Represents the India of first posis replaces - Replaces Element for particular the string x) replaces = Syntax = String String-Name = " System out prent in (String - Name replace (")" Ex - String Name = "Harshida System out println (St Name replace Wutput = HIRS HIRShidI starts with = It gives the hockon real Syntan = String String Name = new String System out printin (String Name startswith 1") " 1) startswith(" " hr = String Name = "Harshida". System-out printen (Name 'starts With 1"17) member function

eletfut = False by = String Namel "Harshida".

System out printer (Namel: starts with "H) eautput = True Inding with that particular nature for not System out println (string - Name : new string (" ? system out println (string - Name : ends With (" ")); Output = String Name = "Harshido";

System out println (Name:
endsWith ("a") condition is degral to string for not. System out println (String-Nameequals (Condition En - String Name = "harshida";
System-out printin (Name equals ("HA contput = FALSE (clase Smathing)

condition is agrial ito the estring words

(Not class dissittive)

Cyntan = String String-Name = ""

System-out printin (String-Name equals Igrore Case (")) En : String Name: "HARSHIDA";

System out print in (Name equals ignore

Case ("HARS I).

White = True (Not Case - Sinsitive). # doops = 100PS =

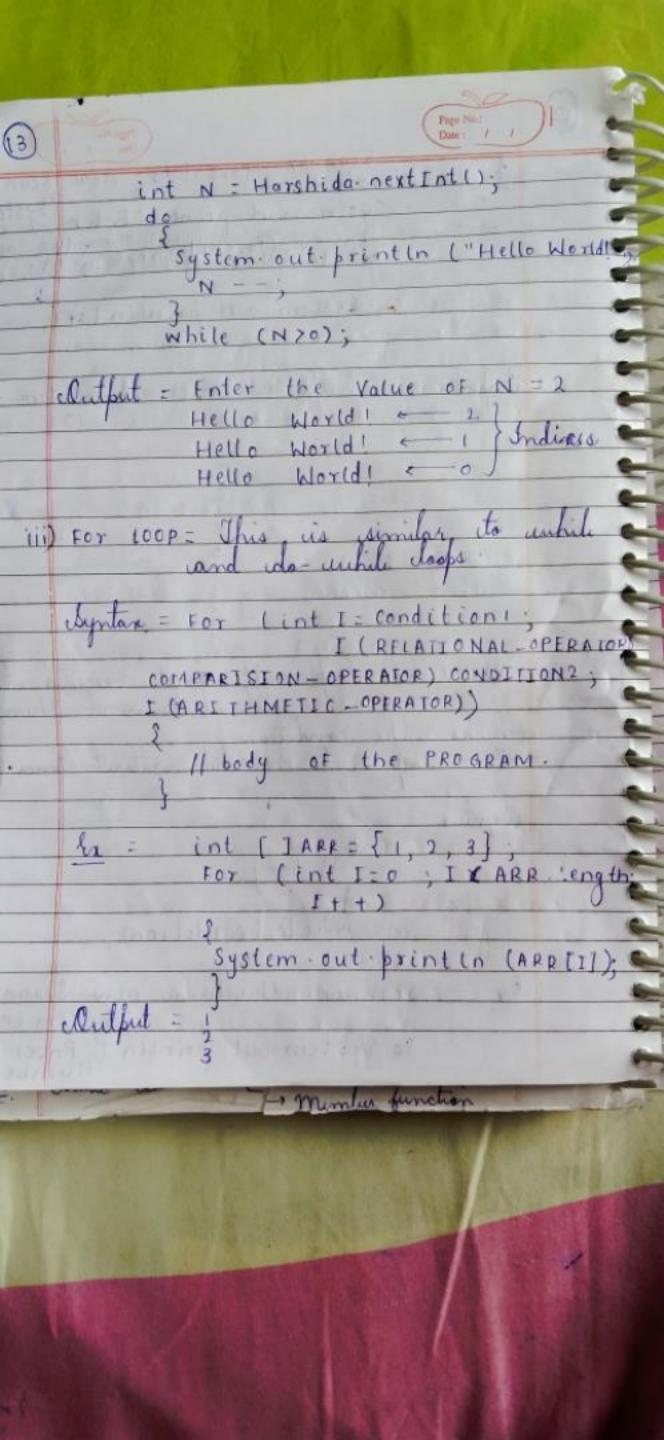
This care allowed to supersent the repetition
Cutput till othe choolean realise of the

program turns to the false. There care narious kinds of loop = i) while = This first checks the condition and then gets true false Executed till the condition elecomes Syntax = while (condition) } Il body to be executed. y come and franction

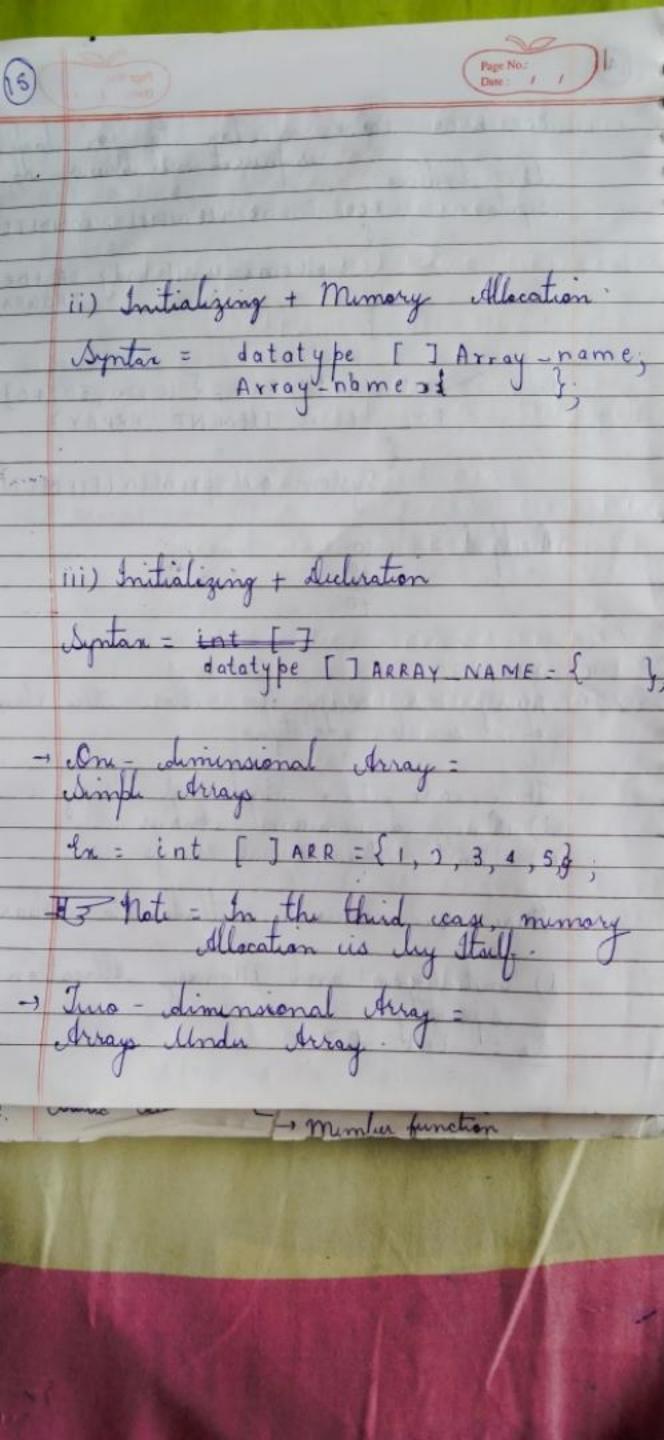
int N; Harshida = new Scanner System out print ("Enter (System.")

int N Harshida next Int ();

while [N70] System out println (N); = Enter the value of N 17 body while (condition); Scanner Harshida : new Scanner (Systemin); so system.out. println ("Enter the



IV) FOR-EACH LOOP = winday FOR (int ELEMENT : CONDITION) System ou Il body of the PROGRAM t [] ARRAY = { 10,20,30,40} FOR (int ELEMENT : ARRAY) System. out println (ELEMENT); uarious methods Initializing and Minory Allocation



wyntan = datatype [][] ARRAY-NAME = intains shather set of [] ARR = {{1,2,3}, {4,5,6}} JAVA METHODS =

Jana mithods is similar as functions

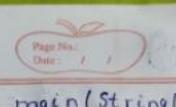
John to furform shrifte task on ristri

ction to the repitation of closes for program

Juliared Inside the class of the program

Jan the idicharid by the etypis = public class class-name static datatype Method-name (Parameters) public static void main (string[] arg } System-out brintin (c);

t estatically then by the bublic class - name datatype Method-Name (Parameter) public static void main (String [] an object - name = class_name new class-name object-name. Method-Name Ex = public class JAVA_METHODS METHODS (int A, int B) A+B) *5 " + + B) / 5; return - member function



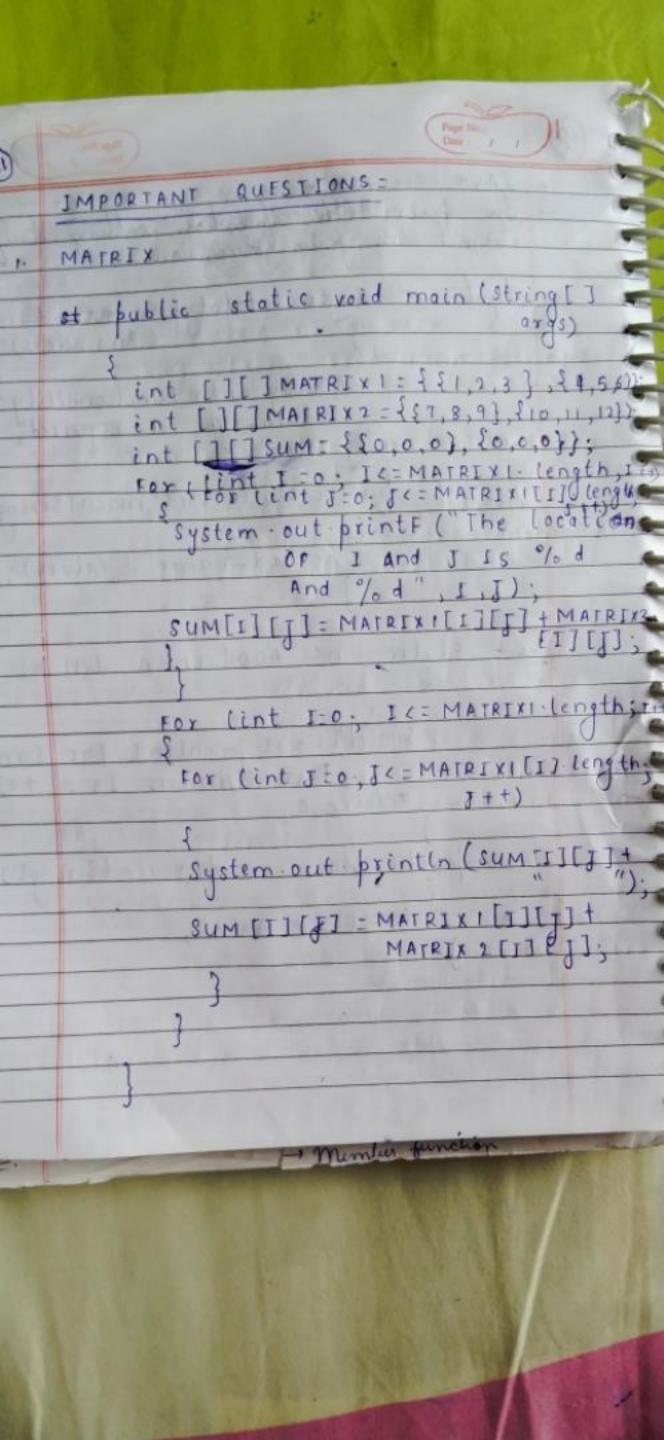
static void main (String[] int x+ = 10 , 1/0 = JAVA - METHODS JAVA - METHO . METHODS (X1, X1); DS (); print in (obj. METHODS X, Y)); OVERLOADING mithods 11et hod-Name (Parameter) datatype 11 body Method-Name (Parameters datatype Parameter 2) public static void main strings METHOD_NAME (Var 1). METHOD -NAME (Var 1, Var 2).

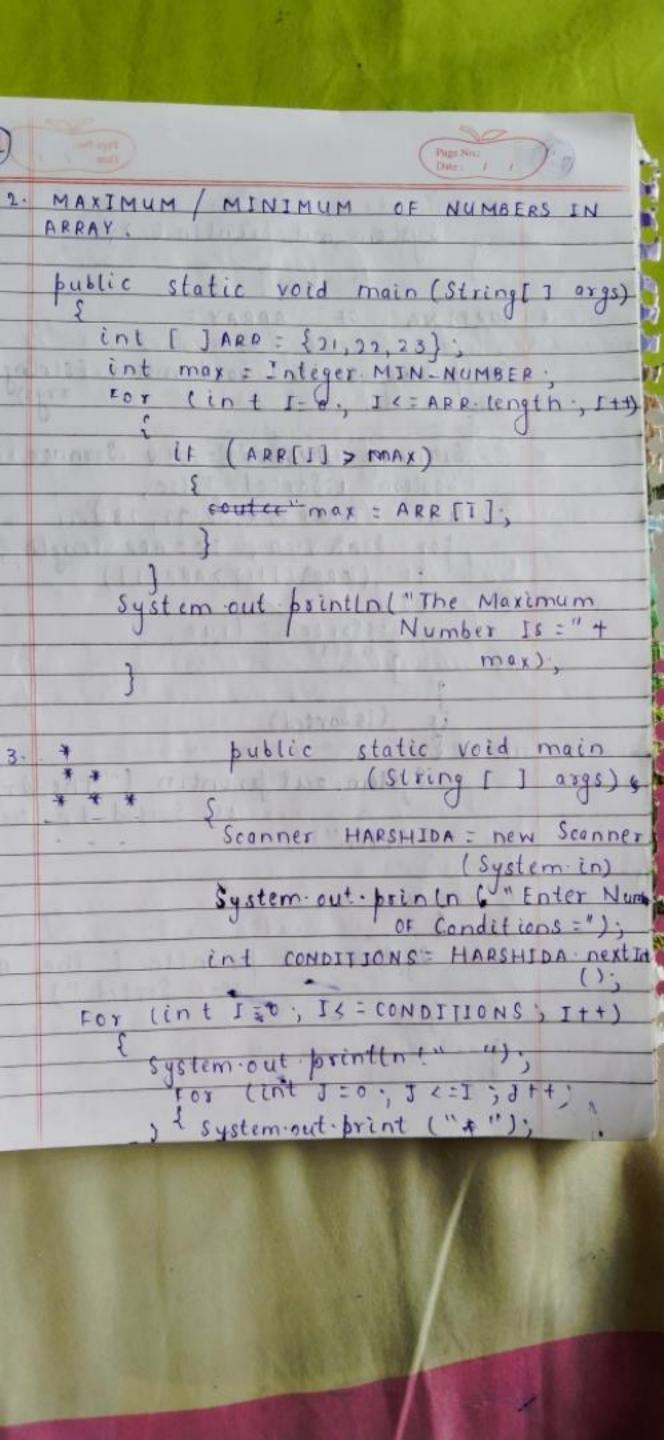
13 Note = The nariables method name and to functionally Alberted its Each is Saintified by the compiler Itself Journalising and walling the rliments and its realist, Marangs are illust public static void main (String[] args) class-Name object-name = new class-Name ()).

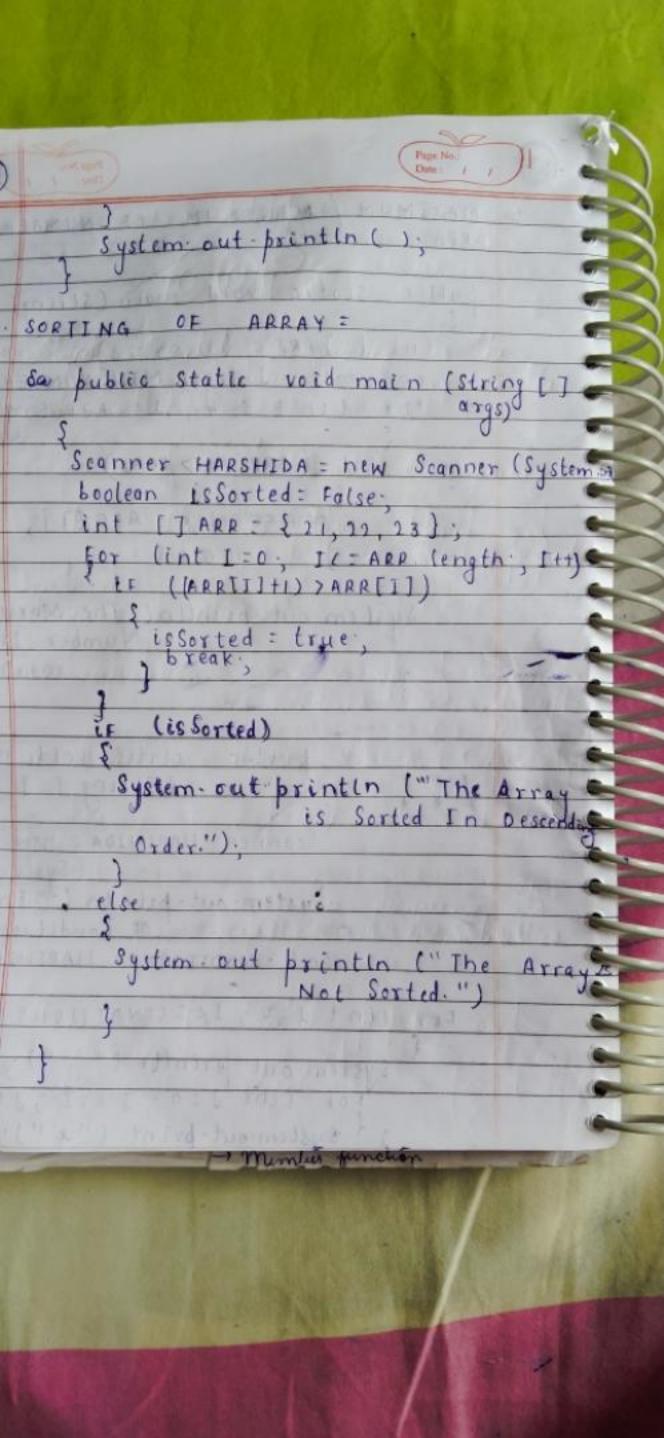
Object_name Method-Name (Values). the Hararge following syntax is usedstatic datatype metho METHOD - NAME (int A, int
--- ARRY Public static void mair (String [7 args)

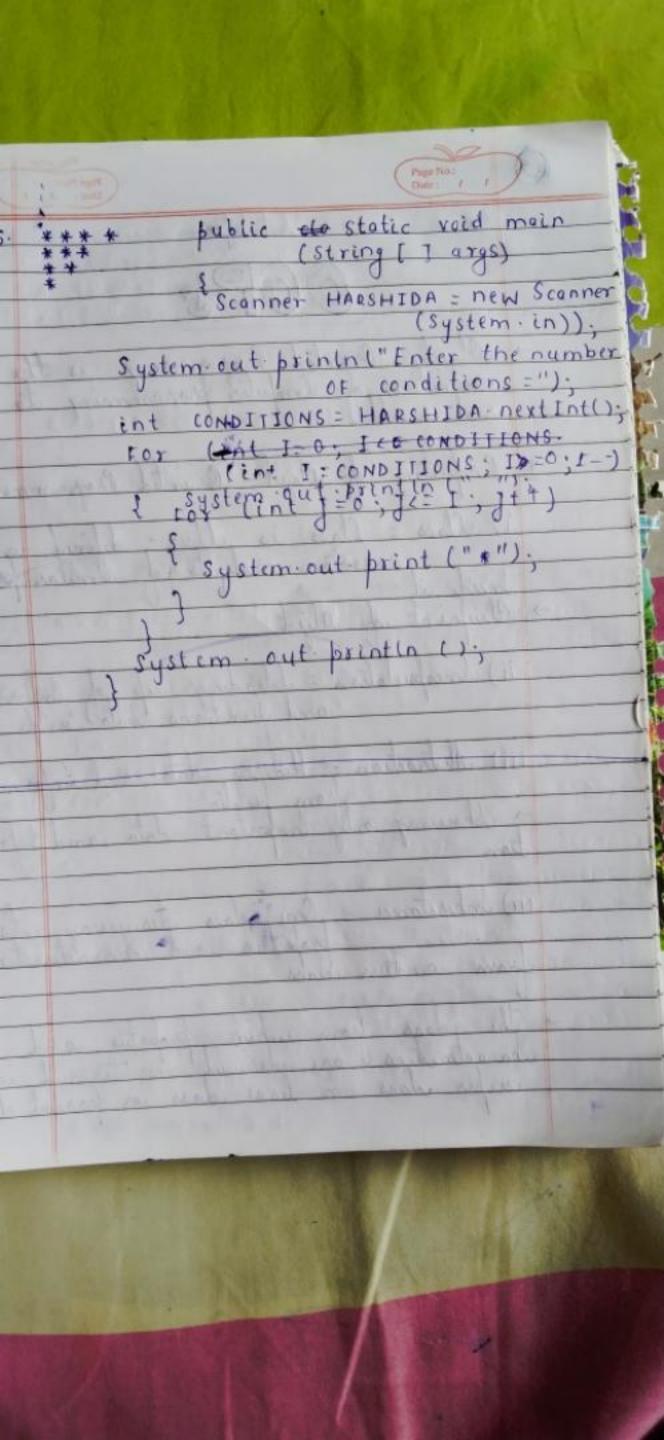
{ METHOD_NAME (val : valz, vais, --- member function

* JAVA RECURSION : In Jana the function calling Itself, is Syntax = static datatype method-name (Parameters) Il body with Functionallity; return-type if required; public static void maintstring[] a: method-name (Values); Ex = Static int ADD(intA, int B) System out println ("The Sum of return c; public static void main (Stringt] org ADD (Vall , Val 2);



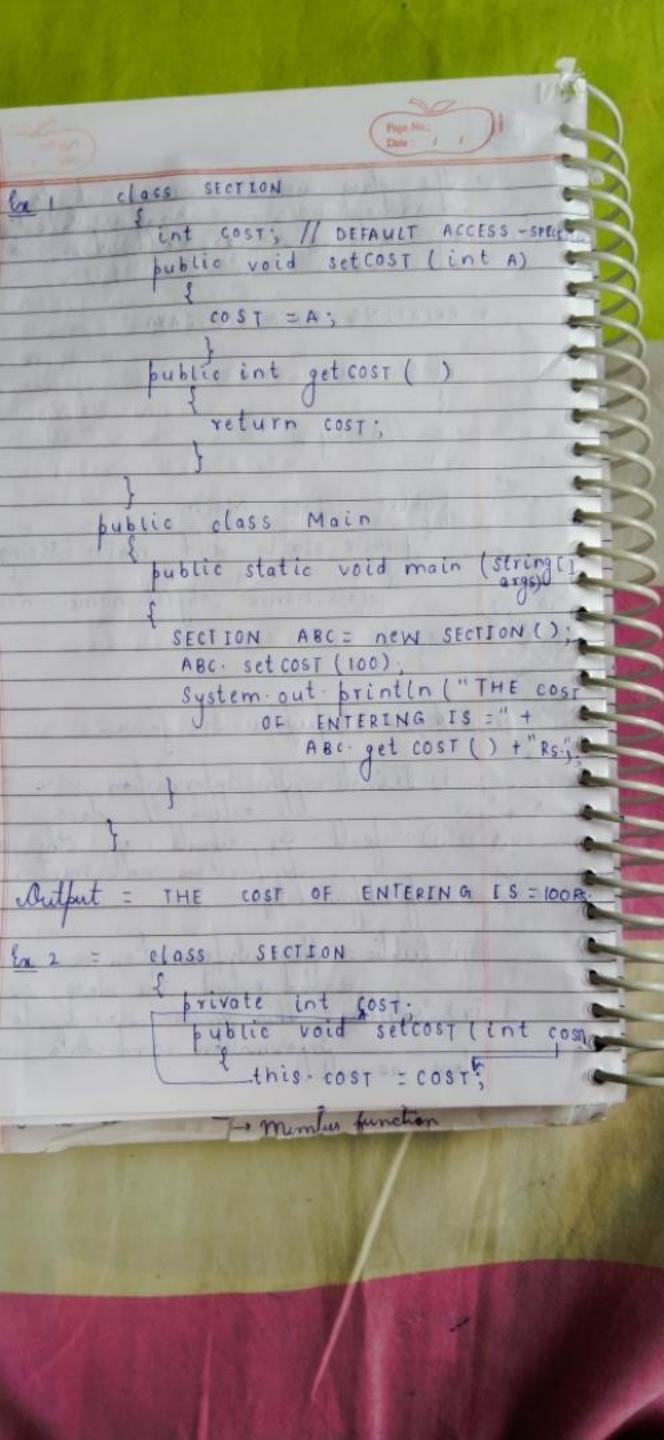


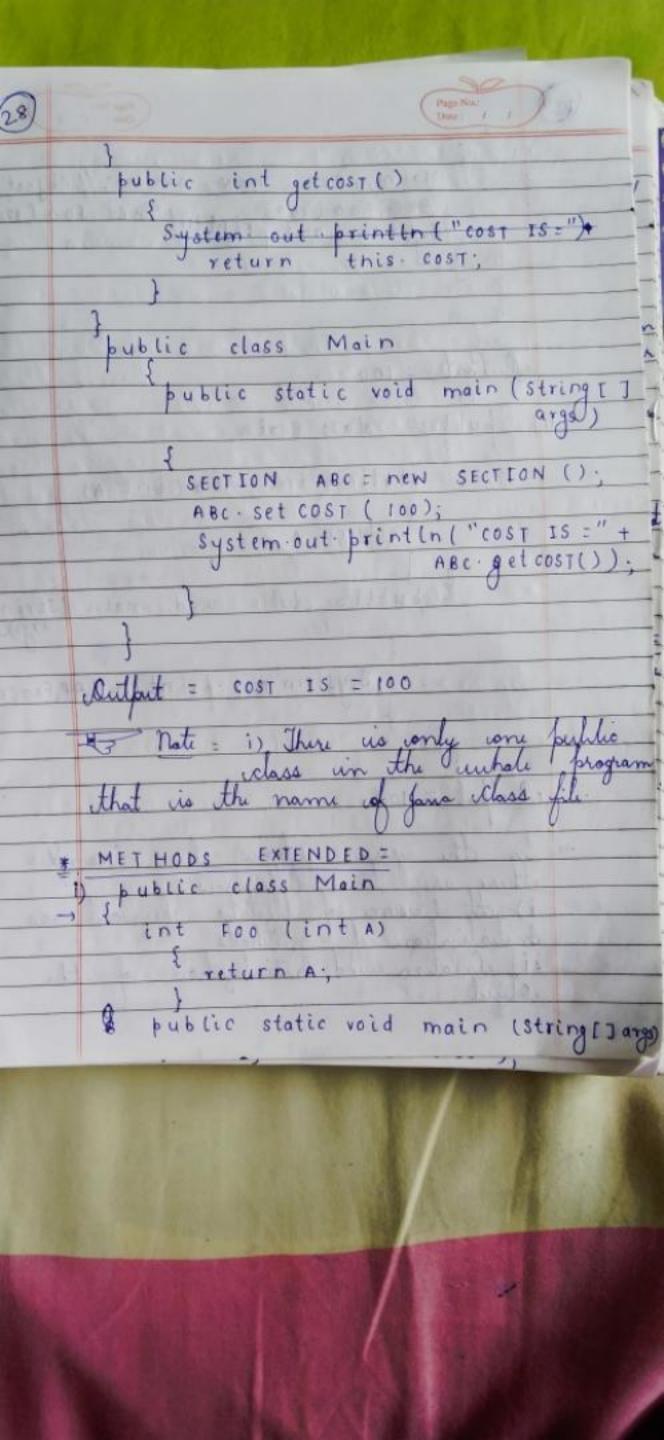




Statifica Object - Drivated Programming is the committee of Computer programming to the * Perfectie of Object - iOriented Programming : i) Class = Class is class defined and contains objects of shoular properties of Bluefint of Object ii) Incoportation : lilinding up you Information Hutraction - Hiding data and Information from public data and Information tion from another class and characteristics The class from which properties and characteristics are diring us termed us termed us confirmed us termed us 1- member function

* CREATING CLASS IN JAVA = class class _ name 1/body; bublic class Main public static void main (String [] args). class_name object_name = new class Access - Specifiers In Jana =

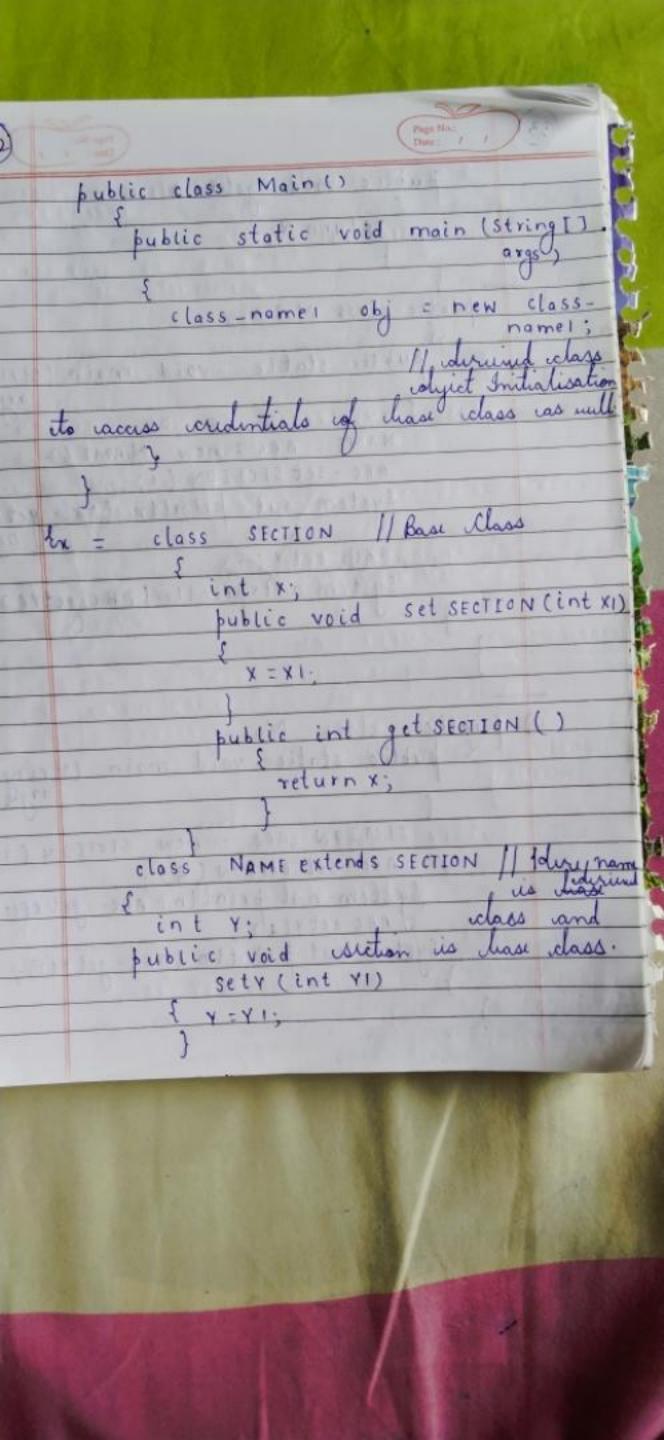


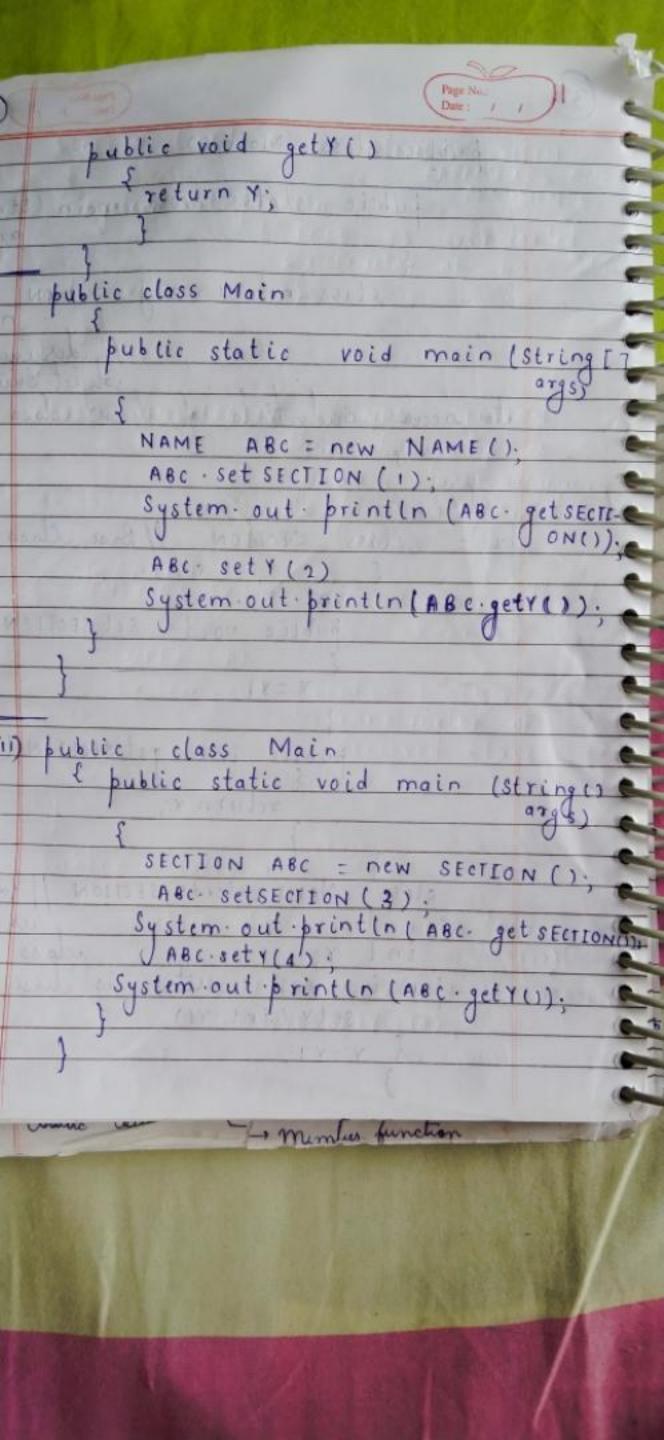


0 Main ABO = new ABO (); // Object ublic class Main static int Foo(int A) public static void main (string 8 ystem out print in (AF FOO (100) - member function

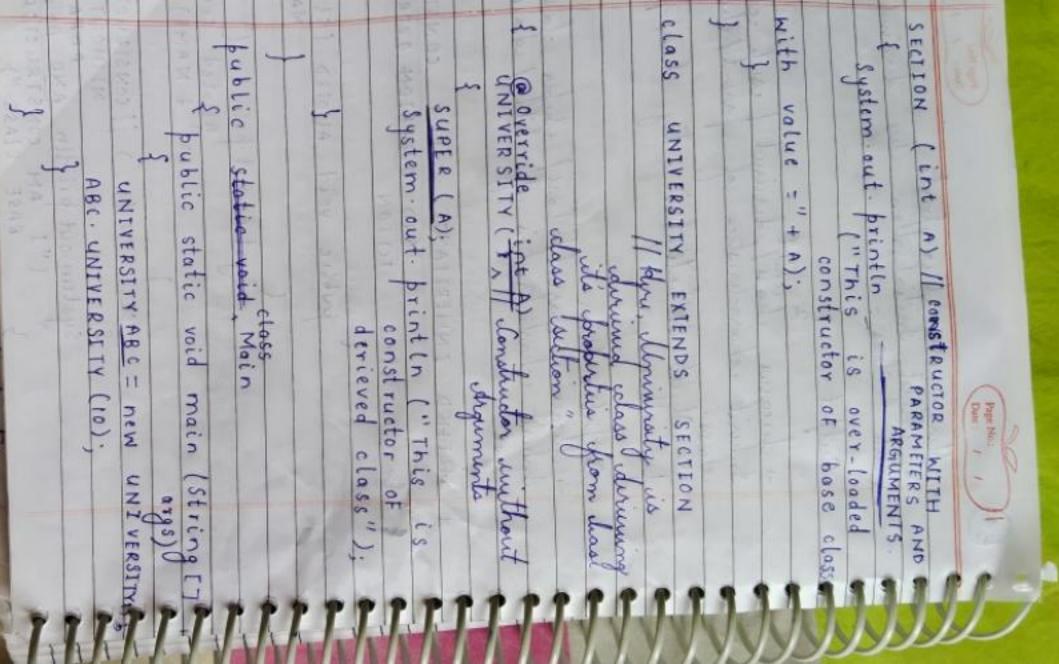
bublic class Main - datatype identifier (Parameter) 11 body; public static vold main String[] args) Main Object-Initialization = new object - Initialization identifier (value) bublic class Main tex static datatabe identifier //body; public static void main (strings) 1) . { Identifier (Value);

INHERITANCE := hir iclass Supports phenomina of Rices class class-name //base class 11 body; class class - name 1 extends class_ name I the class name! us colorina class Inheriting call undentials and fromtus from chase class (class - name 11 body; - member function





county WEI HOD character class INHERITANCE Initialyphon System out bublic SECTION System-out-print in AND NoI BASE Void println OVERRIBN OVERLOADE HIIM CLASS.") ALLOTED Alloted CONSTRUCTOR + AND CONSTRUCTOR RUCTOR O NAME) divino 1000 parent NAME "The Section



0 SAN Murrid Derieved -@ Override Suber 2/1 farmer brogram Identifier class - name OF natura Bose - 10 -9 F clasy); Boble Argument Class)