11. Ains To write Pseudo ande for Converting Binary to decimal Pseudo Cade. declare the Scannes class to get the input get the input binary number from the User. While (bin >0) a= bin · (. 10; dect = a + math pow(2,i) bin = bin/19 Ofesplay the decimal number 12. Aim: To write Pseudo Code for Converting decimal to kinary number Pseudo Code: declare the Scanner Class for the user input get the input ofecimal number from the uses declare a variable 5 of String Builder () while (a >0) € 6 = 0.06.2 s-append(b) a= a/2;

reverse the String's using reverse() display the String 13 Aim: To write pseudocode to demonstrate the datatypes in Java Pseudo Code: declare the variables int a = 3; float 6 = 4.56 double C= 5.674593276 Chara of = "Him bool e= true chisplay the clota types print (at br ctate) 14. Aim: To write Java Program for a. Implied Conversion int intralue = 100 long longvalue = intralue float floatvalue = longvalue Prent entvalue . Print longvalue print floatvalue

be Explicit Conversion double double value = 123-45 ent intualre = int (double value) print double value print intralue Co laste max Byte = 127 Over flowByte = (byte) (maxByte+1) Poent max Byte point OverflowByte 15- Aim: To write Pseudo Code for demonstrating String methods and String Constructors Pseudo Codo: Streng Constructor String Str 1 = new String ("Hello world") String methods String Str2 = "Java"; i'nt length = Str1 length for length of String Char a = Str1. CharAt (1); for Char at Endex 1 String Substr = Str2. Substring (5,11); String uprocase = St. 2- to Upper Case (); String Lower = Str1. to Lower Case()

16 April: To write psado code for printing I to Using for loop and Store in making 1 Pseudo Code: Create Matrix A with dimension 1×9 Create matrix B with dimension 1x9 For i in range from 0 to 8 Set matrex A[O][:] To :+1 too i in range from 9 to 1 set matrix B[o][i] to i For i from 0 to 8 Print matrix A[o][i] for i from 9 to 1 Print matrex B[o][i] 17. Aim: To write Java program for Greating a 20 array Pseudo Code initialize 1=3 For i in range from 6 to 3 For j in range from 0 to 3 matix1[i][j] = i

wing the fex loop pilet the or arry (5 /1 0, F/ 3,1++) Level or 10 3 jan 1 print (maible [:197]), mand (In)) × 18-09-2004 Xclass called far with constructor Jutalize Janaske 7 String make
String model Contractor [Mak, JEAR
String model Contractor [Mak, JEAR
Ent year class Car: Varlables: int year Input: make, model , year / de Constructor Set class variables to input variables Method Print Car Details Output: display make, model and year of the Car create an object of cas with make model Main: and year Call print Cao Details method to display cas details

3 Bank Pseudo Code Class BankAccount: Ent account humber double balance Constructor : Input: account number, initial Balance Set account Number and balance to input Willing Method deposet: input: amount If amount is less than or equal to balon Substract amount from balance e (se Display "Insufficient Balance" Main: Create an object of Bank Account with accountnumber and initial Balance Call deposit method to add money Call withdraw method to take out money Rectangle 9. Pseudo Codo: class rectangle: vanables. Souble length double width

Constructor: input = length, width Set Ength and width to Engut values Method Calculate Avea: return: length & width Create an Object of rectangle with length and Main: Call Calculate area method to get and desplay the area 5. Person Pscudo Code: class person: variables: String name ent age Constructor: input: name, age Set name and age to Enput values Method print Person Details: output: Display hame and age Main: create an object of person with name and call print Person Details method to display the person's name and age

6. method Overviding with a Simple Calculator Pseudo Code: Method add: input: two numbers return: Sum of the two numbers method Substract: input: two numbers return: difference between the two numbers Method multiply: input: two numbers return: product of two numbers method divide: input: two numbers if denominator is not zero: return: quotient else display: Carit divide by Zero Class Calculatos (Inherita Calculatos): Override method multiply: input: two numbers return: more complex calculation main: Create an Object of Calculato, Class call add, Sub, multiply, and divide

1. method Everloading class calculation: midhed Sum (inter Mam) : initialize total aso for each enteges in num Add integer to total return total overloaded method sum (double ... num): Initialize total as 0.0 for each double in number. add the double to total return total main; create an Objett of Calculator Class Call sum method with a variable number of integers call overload sum method with a variable number of doubles 8. Polymorphism Abstract Class Animal: No implementation (to be implemented by child class) Abstract method Sleep(): No implementation class Dog (Inherita Animal): Implement Method cat(); display: "Dog is eating"

implement Method steeps); display: "Dog is sleeping" class cat (Intorete Animal): Implement method eat(); display "(at is eating" implement method sleep(): display: "Cut is sleeping" Main: Create an object of Dos class call eat and seep methods Create on object of class: call eat and sleep methods 9. Pseudocade: Interfale Draweible: Method draw(): no implementation Class Circle: Amplement method draw: display: "Drawing a Circle" Class Square: implement method drawe display: "Drawing a Square"

main Create an object of Clock class call doan method (woll) Cocate an object of Square class Call draw method (square) 10. pseudo Code: class shape: Varia des: double area = double perimeter method calculate Area(): no implementation method (alculateperimetro(): No implementation Method get Area(): return: wea Method get perimetros (); return: perimeter Class circle = variables: double radius Constructor: input: radius Set radius and calculate area and perimeter implement Method (alculate Areac): Set area to math. PI+ radius + radius

Emplement method calculate Personeles (): Set peremoter to 2+ Math-PI 4 o ording Class Rectangle: Variables double length double width Constructor: input: length, width set length, width and calculates area and pertmeter implement method calculate Asea() = Set area to length & width Main: (seate an Object of Leo Cle with radius Call colculate Area and calculate Porimeter Create an object of rectangle with length and width

call calculate and calculate Personetes method