1 Aim: Java program to Create a Class called Student with Constructor that takes in a name Pseudo Code: Class Student: Declare variables: name (String) id (int) grade[] (chas array) ang (int), initially o Constructor Student (name, icl, grade []); Set Sum to O Set Count to O Assign name to the provided name Assign id to the provided id Assign grade + provided grade for each charc in grade: Increment Count by 1 Sf C es 'A': Add 9 Fo Sum Else if cis 'B': Add 8 to Sum else if c is 'C': Add 7 to Sum Calculate the avg by Kounding the result of sum divided by Count Method desplay ():

Main Program: Create a Student Object SI with name, id and grades as parameters Call the display () method on S1. -X 17-09-24 X-1. Aim: To Write Pseudo Code for Sorting algorithm Pseudo Code: Declare an array 'b' of Size 20 Declare ? (int) Create a Scanner Object for user input prent " enter elements: " Read the list of elements using the for Call the Sort function on array b from index 100P. 0 to a to Sort the entered elemente print" In Sorted list" too each '?' from 0 to 'a-1': print the value of btil Aim: To Write Pseudo Code for the program 2. to find max-min in an array

print Name, ID, Average Grade

Boude Code & Declare an array 'ant I' of size n peclare hon variables imen' and inox' get the array elements from the wer using the too loop Set min = anotoj and max = anotoj For each index 'i' from 1 to n-1 if adotion I min then set men =aox [:] of anotif I max then Set max = arrci] print the nin and max variables 3 Aim: To woite Pseudo Code for Second nuis and max declare the array [] and min, max, Smin and Smax Pseudo Cade: get the array elements from the user using the loop find out min and max For each index 'i' from I to n-1 if applied & min and min > Smin Smin = anote] if abotis] >max and max & Smax then Smax = arr [:]

Print Second min and second max 4 Aim: To mirto Pseudocode fer Pattern Pscudo Code initialize the vasiables i, j, n. 5 for i in range from n to 1 for j'in range from 1 to 2 point ("x") Print ("/n") To Write Pseudo Code for Perfect number 5. Aim: Pseudo Code: declare the variables i, sum get the input number from the ruses find all the factors of the given number rusing for and if loop for ( ==1, ic=n; i++) if (n°/01 = =0) add i to Sum if Sum is equal to given number then it is perfect number 6. Aim: to write Pseudo Gode for Palindrome Psendo Code: declare the Scanner Class get the input string from the user

using String Buildwar function and seversely junction to revesse the story Compuse the orginal and reversed sineng. if equal it is presidente 1. Aim: To write Pseude lode for Checking given number is Amstrong os not Pseudn Code declare the Scanner Class get the input number from the reser Store it in a temp variable while ( a >0) { x = a=1010; Sum + = 0 + 8 + 8; a= 410; if (temp== Sum) it is amstrong else et is amstrong tim: To write Pseudo Code for finding the volume of Sphere Pseudo Code: declare the Scannes Class get the value of radius from the user declare a vasiable volume (double) Volume = (Math-PI + (4/3) # 8 \* 8 \* 8

point the value of volume

9. Aim: To write Psaudo Code for Power

Pseudo (ode:

declare the Scanner class to get the Enput
get the values of base and exponent
then power = Math-pow (base, exponent)
print the value of Power

10. Alm: To write Pseudo Gode for Performing Ax + hnetic Operations

Pseudo (ode:

Geclare the Scanner Class to get input
gct the operator and operand
if Operator = Sum

print Sum of given numbers

else of operator = '-

point the difference of numbers else if operator = '\*

Print the multiplication of humbons else if operator = 1/

point the divisor of numbers