(1)

Aim: To write a java program to implement bubble sort on an array

Pseudo code:

① declare an array 'b' of size 20

② Declare i(int)

③ Create j a Scanner object for user input

④ Print "enter element"

⑤ And Scan the a

⑥ Print the "number of array element":

⑦ for (i=0;i<a;i++)

⑧ Scan the b into array then print b[i]

⑨ Arrays.sort(b, 0, a) and print ("sorted list:");

⑩ using for (i=0;i<a;i++) then print b[i];

(2)

Aim: To write a java program to find max-min in an array.

Pseudo code

① Declare an array 'arr[]' of size n

② Declare two variables 'min' and 'max'

③ get the array elements from the user using the for loop

④ Set min = arr[0] and max = arr[0]

for each index (i) from 1 to n-1

if arr[i] < min then

set min = arr[i]

if arr[i] > max then

set max = arr[i]

Print the min and max variables

③

Aim: To write a java program to find Second min and max

Pseudo code:

①

declare the array[] and min, max, Smin, Smax

get the array elements from the user using loop

find out min and max

for each index i from 1 to n.

if arr[i] < min and min > Smin

Smin = arr[i]

if arr[i] > max and max > Smax then

Smax = arr[i]

Print Second min and Second max

(4) Aim: To write a java for pattern

Pseudo code

initialize the variables i, j, n, s

for i in range from n to 1

for j in range from 1 to i

Print ("*")

Print ("\n")

(5) Aim: To write a java program for perfect number

Pseudo Code:

declare the variables i, sum = 0.

get the input number from the user.

find all the factors of the given number using for and if loop

```
for (i=1; i<=n; i++)
    if (n % i == 0)
    add i to sum
```

if sum is equal to given number is perfect number

(6) Aim

To write a java program for Perfect number, Palindrome

Pseudo code

declare the Scanner class

get the input string from the user for using String Builder () function and reverse () function to reverse the string

Compare the Orginal and reversed string if equal it is palindrome

(7)

Aim : To write a java program of Pseudo Code for Amstrong or not

Pseudo code

declare the Scanner Class

get the input number from the user

store it in a temp variable.

```
while (a>0)
{
r= a%10;
Sum += r*r*r;
a = a/10;
}
if (temp == Sum)
Print ("Amstrong")
else Print ("not Amstrong")
```

(8) Aim: To write an Pseudo code for finding the volume of sphere

Pseudo code

declare the Scanner class

get the value volume (double) int r

Volume: Math.PI * (4/3) * r * r * r

Print the value of volume

(9). Aim: To write a Pseudo code for the power

Pseudo code:

declare the Scanner class to get the input

get the values of base and exponent

then power: Math.pow (base, exponent)

Print the value of power

(10) Aim: To write pseudo code for performing Arithmetic operations

Pseudo code:

declare the Scanner class to get input

get the operator and operand

if operator = Sum

Print Sum of given numbers

else

Print the ... number

operator

Print the division of numbers

Aim: To write Pseudo code for the converting Binary to decimal number

Pseudo code

declare the Scanner class to get the input

get the input binary number from the user

while (bin >0)

{

a = bin % 10;

dec + = a * math.pow(...)

bin = bin /10;

i ++;

}

display the decimal number

12) Aim: To write Pseudo code for converting the data type.

Pseudo code

declare the variable

int a = 3;