- Ofibonacci series.

 input n=4

 output = 3
- (2) matrix addition

 mat $1 = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$ mat $2 = \begin{bmatrix} 3 & 4 \\ 2 & 1 \end{bmatrix}$
- 3) pattern program.
- fibonacci series:
 Aim: To write a java program for sum of fibona

 cci series.

Pseudo code:

- 1. Initiallize the variables.
- 2. Input the values of n.
- 3. declare the values first-term and second terms are
- 4. declare the for loop statement and next term is equal sum of previous two terms.
- 5- perform the sum operation.
- 6. output statement.

ona.

2:

3

```
program:
  import util java. util. *;
  public class fibonacci {
       public static void main (string () args) {
          Scanner input = new Scanner (system in);
     system rout. print ("enter number of terms: ");
       int n = input next ont();
        int result = fibonacci(n);
     systemiout.println(result);
    Public Static int fibonacci (int n) {
          >(1=10) 7:
             return n;
          4
          else &
          return fixonacci (no-1) + fixonacci (n+-2);
     system.out. Println (fibonacci);
3
output:
   7=4
   result = 33
  fseriel =
```

(2) matrix addition :-

Aim: - To write a java program for matrix addition

pseudo code !-

" Declare the packages of array matrix

2. Input the elements in an array. matrix.

3. declare the for' to find the elements sum.

4. Initiallize two 'for Loops 'i' and i'.

5. Derform addition of matrix using addition operation.

6. ouput statement. (dansor) as toing. Moramore

import java util. *:

2 (a gail iss provide toi siders siders public class matrimadditions

int rows = 2;

int column s= 2;

integes matrix (= f = 1) isomers

51123 23,43 sood & Jahana suo mosere

3:

int[][] matrix 2 = {

3;

int [][] summatrix = new int BBET (rows] (column);

for line i = 0; izrows; i++) {

```
. for (i=o; jreolumns; j++) {
       sum matrix (i)[j] = matrix 1[i][j] + matrix 2[i][j]:
    y
   4
  for (1:00:120005; 1++) {
      for(j=0; j2columns; j++) {
        System.out. Println (summatrix [i][i] + "");
                                        outPut:
      4
                                        mat = (3 4) mat 2= (3 4)
                                          sum mat= (4 6)
       system out print ();
3. pattern:
 Ain: - 10 write a java program for pattern.
program :-
 import java-util-scanner;
 public class patterna
   Pta public static void main (string[] args) {
           scanner input = new scanner (systemin);
        system.out.print("number of rows:");
        int n = input nextent();
  tor (i=1; ir=v; i++) &
      for(j=1; j== ; j++) {
                 printsystem.out.println (" + ");
   3
                                  output:-
      system out print 1;
4
```