Assignment - 3 JAVA

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1. Write a java program to get inputs for multiplying two matrices and display the result.

Ats import jour util. Scanner;
public class Notice Multiplication ?

public static void main (String []args) ?

Scanner Scanner = new Scanner (System. In);

System. out - print ("Enter the number of rows of M1"); int rough = scanner. next Int();

System.out.print (" Enter the number of column of M1");

int cols 1 = Scanner.next Int();

System.out-print ("Enter the number of rows in M2"); int rows 2 = Scanner. next Int();

System-out-print ("Enter the number of alumns in M2").

int cols 2 - Scanner - next Int ();

1 = (cols 1 ] = rows 2) {

Systemout println ("Matrix multiplication is not possible.")

els e.

[m/DD mothers 1 = now int [cols]]
mtDD matrix 2 = new int [rows2] [cols2];
int [DD rosolt matrix = new int [rows1][cols2].

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System.out-proten ("Enter the elements for the first motive");
   Por (int i=0; icrowst; i++){
         for (int j=0; j < cols1; j+1) { motrix1 [i][i] = scanner_restit();
System.out println ("Enter the clements for the Second matrix:");
 for (int i=0; i<rous2; i++) { for (int j=0; j< cols2; j++) {
      motrix2[i][i] = scanner next Int();
  Por (int i=0; i < rocs1; ++) {
               for (int i =0; i < cols2; i++) {
                          for (int k = 0; K < cols 1: K++) (
                             result Matrix [][]+= matrix [][][]
                                                       matrix [[][];
              337
  Systemat . print ln ("Result Matrix after multiplication:");
           for (int i=0; i < rows1; i++) {
                    for (int j=0; j< cols2; j++)?
                             System out-port ( result Motrix [] []+")
                 System -out - print (m);
          Scanner obsel);
```

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2. Find Pactorial of numbers with integer Square and from I to 35
      example no.169
oths import java.io*;
       public class fact ?
                public state void man (Stong [] args) ?
                       Int n=1;
                   For (int 1 = 1; (i=i) < 356; i+4)
                           System.out. println (i*i).
                           int fact = 1;
                           Por (int j=1; j<=1) j++)
                                    fact = fact vi;
                     System. out. println (fact).
```

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3. Reverse a string and find this a palmdrome
Any import jova util . Sconner;
      Publo class at 5.
                public static wood man (String Dargs)?
                Scanner Scanner = new Scanner (System. in):
                System.out. print (" Enter a strm: ");
                String input = scanner next Line ();
               If (is Palindome (inpt)) ?
                  System.out-print ln ("The Strong is a palindrome.")
               System. out-printle ("The String is not a palintare)
              Sommer. close():
         public static boolean is Palindrome (String str)
                str = str. replace All ("115+", ""), blower (ast).
                 Strong Str 2 = " 11.
                 For (in) i = str. length()-1; 1>=0; 1--) {
                           Str 2 = str2 + str. char [4 (i)
              System out print ln (str2)
                   P (str2==str) Ereturn tree;
                 ese {
                    return false;
```