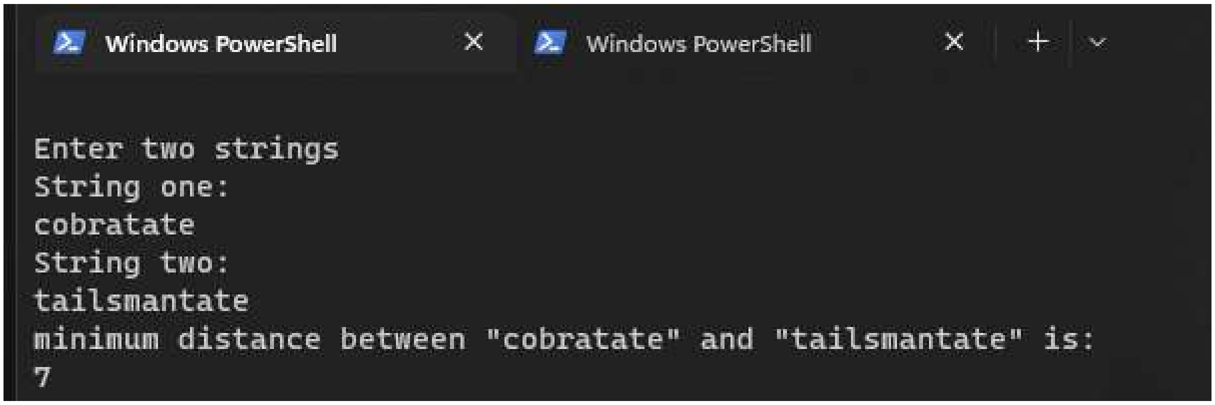
```
import java.util.*;

public class EditDistanceStrings
            {
                final static int ERROR_INPUT = -1;

                private int min(int a, int b)
                {
                    return (a<b)?a:b;
                }

                private int min(int a, int b, int c)
                {
                    return min(min(a,b),c);
                }

                public int findDistance(String str1, String str2, int m, int n)
                {
                    if (str1 == null || str2 == null)
                    {
                        return ERROR_INPUT;
                    }


                    if (m == 0)
                    {
                        return n;
                    }


                    if (n == 0)
                    {
                        return m;
                    }


                    if (str1.charAt(m-1) == str2.charAt(n-1))
                    {
                        return findDistance(str1, str2, m-1, n-1);
                    }


                    return min (
                                  1 + findDistance(str1, str2, m-1, n),
                 1 + findDistance(str1, str2, m, n-1),
                 1 + findDistance(str1, str2, m-1, n-1)
               );
}


public int findDistance(String str1, String str2)
{

    if (str1 == null || str2 == null)
    {
        return ERROR_INPUT;
    }


    int[][] distanceTable = new int[str1.length()+1][str2.length()+1];

    int numRows = str1.length() + 1;
    int numCols = str2.length() + 1;

    for (int m = 0; m < numRows; m++)
    {
        for (int  n = 0; n < numCols; n++)
        {

            if (m == 0)
            {
                distanceTable[m][n] = n;
            }


            else if (n == 0)
            {
                distanceTable[m][n] = m;
            }


            else if (str1.charAt(m-1) == str2.charAt(n-1))
            {
                distanceTable[m][n] = distanceTable[m-1][n-1];
            }


            else
```

```
                            {
                                distanceTable[m][n] = min (
                                                           1 + distanceTable[m-1][n],
                                                           1 + distanceTable[m][n-1],
                                                           1 + distanceTable[m-1][n-1]
                                                         );
                            }
                        }
                    }

                    return distanceTable[numRows-1][numCols-1];
                }


                public static void main(String[] args)
                {
                    EditDistanceStrings solution = new EditDistanceStrings();
            // Take two strings
            System.out.println("Enter two strings");
            Scanner sc = new Scanner(System.in);
            System.out.println("String one: ");
            String s1 = sc.nextLine();
            System.out.println("String two:");
            String s2 = sc.nextLine();
            sc.close();
                    // System.out.print("minimum edit distance between+ \"intention\" and \"execution\"
is: \n" );
            System.out.println("minimum distance between \""+s1+"\" and \""+s2+ "\" is:");
                    System.out.println(solution.findDistance(s1 , s2 ));
                }
            }
```



```
Enter two strings
String one:
cobratate
String two:
tailsmantate
minimum distance between "cobratate" and "tailsmantate" is:
7
```