

7)Program to create 2D array and Sort it

```
package twodarray_sort;
import java.util.Scanner;

public class Twodarray_sort {

    public static void main(String[] args) {

        Scanner obj=new Scanner(System.in);
        System.out.println("enter number row");
        int row=obj.nextInt();
        System.out.println("enter number column");
        int col=obj.nextInt();
        int array[][]=new int[row][col];
        System.out.println("enter elements");
        for(int i=0;i<row;i++){
            for(int j=0;j<col;j++){
                array[i][j]=obj.nextInt();
            }
        }
        System.out.println("Sorted array is :");
        int n=row*col;
        int ar[]=new int[n];

        int k=0;

        for(int i=0;i<row;i++){
            for(int j=0;j<col;j++){

                ar[k]=array[i][j];

                k++;
            }
        }
        int temp;

        for(int i=0;i<n;i++){
            for(int j=i+1;j<n;j++){
                if(ar[i]>ar[j]) {
                    temp=ar[i];
                    ar[i]=ar[j];
                    ar[j]=temp;
                }
            }
        }
        int g=0;

        for(int i=0;i<row;i++){
            for(int j=0;j<col;j++){

                array[i][j]=ar[g];
```

```

        System.out.print(array[i][j]+" ");

        g++;
    }
    System.out.println("");
}
}
}

```

The screenshot shows an IDE with a Java file named `Twodarray_sort.java`. The code defines a package `twodarray_sort`, imports `java.util.Scanner`, and contains a public class `Twodarray_sort` with a `main` method. The `main` method prompts the user to enter the number of rows and columns, reads these values, creates a 2D array, and prints the elements. The output window shows the program's execution with user input (3 rows, 2 columns) and the resulting sorted array (1 2, 3 5, 7 8). The build is successful.

```

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        int row=obj.nextInt();
        System.out.println("enter number column");
        int col=obj.nextInt();
        int array[][]=new int[row][col];
        System.out.println("enter elements");
        for(int i=0;i<row;i++){

```

Output - twodarray_sort (run) X

```

run:
enter number row
3
enter number column
2
enter elements
5
7
3
8
2
1
Sorted array is :
1 2
3 5
7 8
BUILD SUCCESSFUL (total time: 22 seconds)

```