

Announcements

About the Course Ask a Question Progress

Mentor





Course outline How does an NPTEL online course work? Week 0 : Assignment 0 Week 1: Week 2: Week 3: Week 4: Week 5: Week 6: Week 7: Week 8: Week 9: • Lecture 41 : Demonstration-• Lecture 42 : AWT Programming--III • Lecture 43 : Swing-I • Lecture 44 : Swing—II • Lecture 45 : Demonstration-• Quiz: Assignment 9 Java Week 9: Q1 Java Week 9: Q2 Java Week 9: Q3 Java Week 9: Q4 lava Week 9: 05 • Feedback For Week 9 Week 10: Week 11: Week 12: Solution

DOWNLOAD VIDEOS

Programming Test - (April 11 - 10AM - 12 PM)

Programming Test - (April 11

Text Transcripts

- 8PM - 10 PM)

Java Week 9 : Q3

Due on 2020-11-19, 23:59 IST

Complete the code to perform a 45 degree anti clock wise rotation with respect to the center of a 5×5 2D Array as shown below:

INPUT:

•UTPUT:

Note the following points carefully:

- 1. Here, instead of 0 and 1 any character may be given.
- 2. The input and output array size must be of dimension 5 × 5 and nothing else.

Drivato	Toet	caese	Hearl	for	01/2	luation

Test (Case	1
--------	------	---

Input	Expected Output	Actual Output	Status	
00100	10001\n	10001\n		
00100	01010\n	01010\n		
11111	00100\n	00100\n	Passed	
00100	01010\n	01010\n		
00100	10001	10001\n		

The due date for submitting this assignment has passed

1 out of 1 tests passed

You scored 100.0/100.

Assignment submitted on 2020-11-10, 22:53 IST

Your last recorded submission was

```
import java.util.Scanner;
public class Question93{
   public static void main(String args[]){
        Scanner sc = new Scanner(System.in);
// Input 5X5 2D Array using Scanner Class
        // Perform 45-Degree rotation keeping center same (use your own logic)
// Print the transformed output 5X5 2D Array
char arr[][]= new char[5][5];
    // Input 2D Array using Scanner Class
for(int line=0;line<5; line++){
    String input = sc.nextLine();
    char sed[] = input.tocharArray();
    if(seq.length==5){
        for(int i=0;li5;i++){
            arr[line][i]=sed[i];
        }</pre>
                                                      }else{
    System.out.print("Wrong Input!");
    System.exit(0);
                                          } // Declaring the array to store Transition char tra[][] = new char[5][5]; String outer[]={"00","10","20","30","40","41","42","43","44","34","24","14","44","34","24","14","34","03","02","01"};
                                          String inner[]={"11","21","31","32",
"33","23","13","12"};
                                         }
                                                                 }
// Transform inner portion
for(int k=0; k<inner.length; k++){
    char indices[]=inner[k].toCharArray();
    int a = Integer.parseInt(String.valueOf(indices[0]));
    int b = Integer.parseInt(String.valueOf(indices[1]));
    if(a==1 && b==j){
        if(k==7){k=0;}
        else {k+=1;}
}</pre>
```

```
indices=inner[k].toCharArray();
a = Integer.parseInt(String.valueOf(indices[0]));
b = Integer.parseInt(String.valueOf(indices[1]));
tra[a][b] = arr[i][j];
break;
                                                                         }
// Keeping center same
tra[2][2] = arr[2][2];
                                               }
// Print the transformed output
for(int i=0;i<5;i++){
    for(int j=0;j<5;j++){
        System.out.print(tra[i][j]);
}</pre>
                                                              }
System.out.println();
   imple solutions (Provided by instructor)

import java.util.Scanner;
public class Question93{
   public static void main(String args[]){
    Scanner sc = new Scanner(System.in);
    char arr[[]] = new char[5][5];
    // Input 2D Array using Scanner Class
   for(int line-0:line<5; line++){
    String input = sc.nextLine();
    char seq[] = input.toCharArray();
   if(seq.length==5){
        if(seq.length==5){
        if(seq.length==5){
        arr[line][i]=seq[i];
        }
}</pre>
Sample solutions (Provided by instructor)
 arr[line][i]=seq[i];
}}else{
    System.out.print("Wrong Input!");
    System.exit(0);
                                               }
// Declaring the array to store Transition char tra[][] = new char[5][5];
String outer[]={"00" "10" "20" "30" "30" "30" "30" "30" "41" "41" "41" "41" "41" "41" "64","03","02","01"};
                                                 String inner[]={"11","21","31","32",
"33","23","13","12"};
                                               }
}
// Transform inner portion
for(int k=0; kcinner.length; k++){
    char indices[]=inner[k].toCharArray();
    int a = Integer.parseInt(String.valueOf(indices[0]));
    int b = Integer.parseInt(String.valueOf(indices[1]));
    if(a==i && b==j){
        if(k==7){k=0};
        else {k+=1;}
        indices=inner[k].toCharArray();
        a = Integer.parseInt(String.valueOf(indices[0]));
        b = Integer.parseInt(String.valueOf(indices[1]));
        tra[a][b] = arr[i][j];
        break;
}
                                                                         }
// Keeping center same
tra[2][2] = arr[2][2];
                                               }
}
// Print the transformed output
for(int i=0;i<5;i++){
    for(int j=0;j<5;j++){
        System.out.print(tra[i][j]);
}</pre>
                                                              }
System.out.println();
```