



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 **Text Transcripts** Programming Test - (April 11 - 10AM - 12 PM)

Programming Test - (April 11

- 8PM - 10 PM)

Java Week 9: Q2

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

Complete the code to develop an ADVANCED CALCULATOR that emulates all the functions of the GUI Calculator as shown in the image.



Note the following points carefully:

- 1. Use only double datatype to store all numeric values.
- 2. Each button on the calculator should be operated by typing the characters from 'a' to 'p'.
- 3. To calculate 25-6, User should input fjhkc (where, f for 2, j for 5, h for '-', k for 6 and c for '=').
- 3. You may use the already defined function gui_map(char).
- 4. Without '=', operations won't give output as shown in Input_2 and Output_2 example below.
- 5. The calculator should be able to perform required operations on two operands as shown in the below example:

Input_1:
klgc

Output_1:
1\$.0

Input_2:
klg

Output_2:

Private Test cases used for evaluation

Test Case 1

Test Case 2

Input	Expected Output	Actual Output	Status
efagdbamc	13.0	13.0	Passed
mlkc	42.0	42.0	Passed

The due date for submitting this assignment has passed.

2 out of 2 tests passed.

You scored 100.0/100.

Assignment submitted on 2020-11-10, 22:50 IST

Your last recorded submission was :

```
int r=0;
if(seq[i]=='+'||seq[i]=='-'||seq[i]=='/'||seq[i]=='X'||seq[i]=='='){
    for(int j=0; j(i; j++){
        o1+=Character.toString(seq[j]);
}
93
94 }
      }
Sample solutions (Provided by instructor)
```

```
import java.util.Scanner;
public class Question92{
   public static void main(String args[]){
        Scanner sc = new Scanner(System.in);
        String input = sc.nextLine();
        char seq[] = input.toCharArray();
   int outflag=0;
char seq[] = input.tocharArray();
int outflag=0;

// Start the mapping process for each input character
for(int i=0; i<seq.length; i++){
    seq[i]=gui_map(seq[i]);
}

//Print Mapped GUI (remove comment to see the mapped :
    /*
for(int i=0; i<seq.length; i++){
    System.out.print(seq[i]);
}

// Use double type of values for entire calculation double operand1=0.0;
String o1="";
double operand2=0.0;
String o2="";
double output=0.0;

// Perform calculation operations
outerloop:
for(int i=0; i<seq.length; i++){
    int r=0;
    if(seq[i]=='+']|seq[i]=='-'||seq[i]=='/'||seq[i]=:'|
    if(seq[i]=='+']|seq[i]=='-'||seq[i]=='/'||seq[i]=:'|
    if(seq[i]=='+']|seq[i]=='-'|
    operand1=Double.parseDouble(o1);
for(int k=i+1; k<seq.length; k++){
    if(seq[k]=='){
        outflag=1;
    operand2=Duble.parseDouble(o2);
    if(seq[i]=='-'){
        output=operand1-operand2;
    }else if(seq[i]=='-'){
        output=operand1-operand2;
    }else if(seq[i]=='-'){
        output=operand1/operand2;
    }else if(seq[i]=='-'){
        output=operand1/operand2;
    }else if(seq[i]=='-'){
        output=operand1/operand2;
    }else if(seq[i]=='-'){
        output=operand1/operand2;
    }else if(seq[i]=-'-'){
        output=operand1/operand2;
    }else if(seq[i]=-'-'){
        output=operand1/operand2;
    }else if(seq[i]=-'-'){
        output=operand1/operand2;
    }else if(seq[i]=-'-'){
        output=operand1*operand2;
    }else if(seq[i]=-'-'){
        output=operand2*operand2*operand2*op
                                                                                             //Print Mapped GUI (remove comment to see the mapped sequence input)
                                                                                        // Perform calculation
outerloop:
for(int i=0; i<seq.length; i++){
   int r=0;
   if(seq[i]=='+'||seq[i]=='-'||seq[i]=='X'||seq[i]=='='){
        for(int j=0; j<i; j++){
            o1+=Character.toString(seq[j]);
        }
}</pre>
```

```
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for(int i=0; i<gm.length; i++){
    if(gm[i][0]=sin){
        out=gm[i][1];
        break;
    }
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}
Peturn out;
91
```