Week 09 : Programming Assignment 4

Due on 2025-03-27, 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.



- whete 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'.

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 3. To calculate 25-6, User should input fihkc (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:

18.0

Private Test cases used for evaluation Input Expected Output Actual Output Status fghgc 20.0

The due date for submitting this assignment has passed. 1 out of 1 tests passed. You scored 100.0/100.

return out;

Assignment submitted on 2025-03-25, 21:15 IST

Your last recorded submission was:

| Import | 1ava.util.scanner;
| Import | 1ava.util.scanner;
| public class | 0uestion94(| aurorate | 1ava.util.scanner) |
| public static void was canner((8ystem.in));
| class | 0uestion94(| aurorate | 1ava.util.scanner) |
| char | StringBuilder num2 = new StringBuilder{}; StringBuilder num2 = new StringBuilder{}; bar Operator = new StringBuilder{}; baoleah hasOperator = false; for (char ch : input.toCharArray()) {
 char mappedChar = gui_map(ch); if (mappedChar >= '0' && mappedChar <= '9') {
 if (lhasOperator) {
 num1.append(mappedChar);
 } else
 num2.append(mappedChar);
}</pre> } else if (mappedChar == '+' || mappedChar == '-' || mappedChar == 'X' || mappedChar == '/') {
 hasOperator = true;
} else if (mappedChar;
hasOperator = true;
} else if (mappedChar == '-') { double number1 = Double.parseDouble(num1.toString());
double number2 = Double.parseDouble(num2.toString());
double result = 0.0; System.out.println(result); main() method ends here. for(int i=0; for maps
for(int i=0; i<gm,length; i++){
 if(gm[i][0]=-in){
 out=gm[i][1];
 break;</pre> return out;

import java sucult scanner;

public static void main(string args[]) {
 public stati // 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 commer for(int i=0; i<seq.length; i++){ System.out.print(seq[i]); ent to see the mapped sequence input) l, Use double type of values for entire calculation double operand=0.0; double operand=0.0; double operand=0.0; string o2=0.0; double output=0.0; ### Comparison of the control of the }else{ o2+=Character.toString(seq[k]); // Check if output is available and print the output if(outplag==1) print(output); main() method ends here. The main() method ends herefore as input and returns the corresponding GUI character starting of the starting