

JAVA ASSIGNMENT

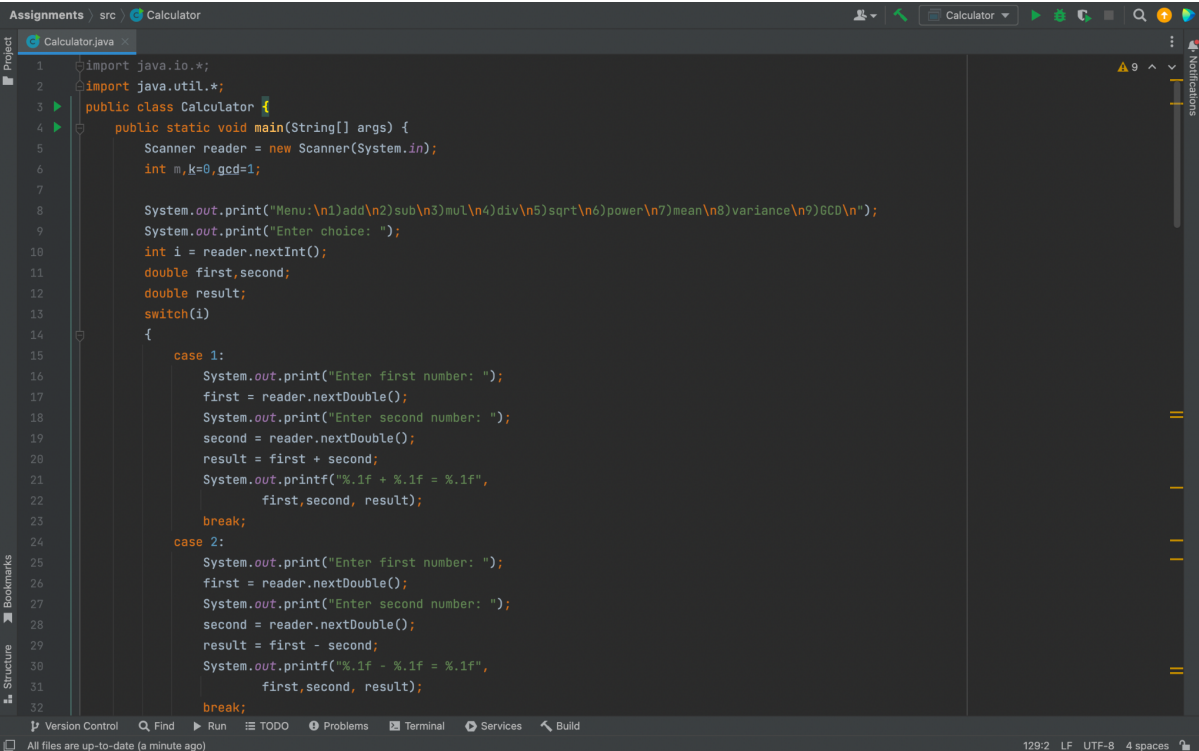
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AIML A1

Write a program to take input from command line arguments, scanner object, BufferedReader object, DataInputStream object, console object and perform the following operations:

Calculator: Addition, Subtraction, Multiplication, Division, Square Root, Power, Mean, Variance using basic math based functions.



```
1 import java.io.*;
2 import java.util.*;
3 public class Calculator {
4     public static void main(String[] args) {
5         Scanner reader = new Scanner(System.in);
6         int m, k=0, gcd=1;
7
8         System.out.print("Menu:\n1)add\n2)sub\n3)mul\n4)div\n5)sqrt\n6)power\n7)mean\n8)variance\n9)GCD\n");
9         System.out.print("Enter choice: ");
10        int i = reader.nextInt();
11        double first, second;
12        double result;
13        switch(i)
14        {
15            case 1:
16                System.out.print("Enter first number: ");
17                first = reader.nextDouble();
18                System.out.print("Enter second number: ");
19                second = reader.nextDouble();
20                result = first + second;
21                System.out.printf("%.1f + %.1f = %.1f",
22                                first, second, result);
23                break;
24            case 2:
25                System.out.print("Enter first number: ");
26                first = reader.nextDouble();
27                System.out.print("Enter second number: ");
28                second = reader.nextDouble();
29                result = first - second;
30                System.out.printf("%.1f - %.1f = %.1f",
31                                first, second, result);
32                break;
```

The screenshot shows an IDE window titled 'Calculator.java' with the following code: The code is a Java program for a calculator. It imports java.io.* and java.util.*. It defines a public class Calculator with a main method. The main method uses a Scanner object to read input from the user. It prints a menu with options 1 to 9. The user enters a choice, and the program uses a switch statement to perform the corresponding operation. The operations shown are addition (case 1) and subtraction (case 2). The program uses System.out.print and System.out.printf for output. The IDE interface includes a project explorer on the left, a code editor in the center, and a terminal at the bottom. The status bar at the bottom indicates 'All files are up-to-date (a minute ago)' and '129:2 LF UTF-8 4 spaces'.

Assignments / src Calculator

Calculator.java

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case 3:
    System.out.print("Enter first number: ");
    first = reader.nextDouble();
    System.out.print("Enter second number: ");
    second = reader.nextDouble();
    result = first * second;
    System.out.printf("%.1f * %.1f = %.1f",
        first,second, result);
    break;

case 4:
    System.out.print("Enter first number: ");
    first = reader.nextDouble();
    System.out.print("Enter second number: ");
    second = reader.nextDouble();
    result = first / second;
    System.out.printf("%.1f / %.1f = %.1f",
        first,second, result);
    break;

case 5:
    System.out.print("Enter second number: ");
    second = reader.nextDouble();
    result = Math.sqrt(second);
    System.out.printf("Square root of %.1f = %.1f",
        second, result);
    break;

case 6:
    System.out.print("Enter first number: ");
    first = reader.nextDouble();
    System.out.print("Enter power: ");
    int p = reader.nextInt();
    result = Math.pow(first,p);
    System.out.printf("Power %d of %.1f = %.1f",p,first,
```

Version Control Find Run TODO Problems Terminal Services Build

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```
Assignments / src / Calculator
Calculator.java
64      System.out.printf("Power %d of %.1f = %.1f",p,first,
65                          result);
66      break;
67  case 7:
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69
70      Scanner sc = new Scanner(System.in);
71      String s = "";
72      int count=0;
73      int total=0;
74      double avg=0;
75      int n;
76      System.out.print("Please enter end to stop taking input: ");
77      while (true)
78      {
79          String input = sc.nextLine();
80          if(input.equals("end"))
81              break;
82          else
83          {
84              n = Integer.parseInt(input);
85              count+=1;
86              total += n;
87              avg=total/n;
88          }
89      }
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91      System.out.println("Mean is "+avg);
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95  case 8:
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OUTPUT: -

```
Run: Calculator x
/Library/Java/JavaVirtualMachines/amazon-corretto-11.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/Lib/idea_rt.jar
Menu:
1)add
2)sub
3)mul
4)div
5)sqrt
6)power
7)mean
8)variance
9)GCD
Enter choice: 1
Enter first number: 12
Enter second number: 13
12.0 + 13.0 = 25.0
Process finished with exit code 0
```

```
Run: Calculator x
/Library/Java/JavaVirtualMachines/amazon-corretto-11.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/Lib/idea_rt.jar
Menu:
1)add
2)sub
3)mul
4)div
5)sqrt
6)power
7)mean
8)variance
9)GCD
Enter choice: 2
Enter first number: 12
Enter second number: 11
12.0 - 11.0 = 1.0
Process finished with exit code 0
```

```
Run: Calculator x
/Library/Java/JavaVirtualMachines/amazon-corretto-11.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/Lib/idea_rt.jar
Menu:
1)add
2)sub
3)mul
4)div
5)sqrt
6)power
7)mean
8)variance
9)GCD
Enter choice: 3
Enter first number: 12
Enter second number: 34
12.0 * 34.0 = 408.0
Process finished with exit code 0
```

```
Run: Calculator x
/Library/Java/JavaVirtualMachines/amazon-corretto-11.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/Lib/idea_rt.jar
Menu:
1)add
2)sub
3)mul
4)div
5)sqrt
6)power
7)mean
8)variance
9)GCD
Enter choice: 4
Enter first number: 34
Enter second number: 3
34.0 / 3.0 = 11.3
Process finished with exit code 0
```

```
Run: Calculator x
/Library/Java/JavaVirtualMachines/amazon-corretto-11.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar
Menu:
1)add
2)sub
3)mul
4)div
5)sqrt
6)power
7)mean
8)variance
9)GCD
Enter choice: 5
Enter second number: 25
Square root of 25.0 = 5.0
Process finished with exit code 0
```

```
Run: Calculator x
/Library/Java/JavaVirtualMachines/amazon-corretto-11.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar
Menu:
1)add
2)sub
3)mul
4)div
5)sqrt
6)power
7)mean
8)variance
9)GCD
Enter choice: 6
Enter first number: 32
Enter power: 5
Power 2 of 32.0 = 1024.0
Process finished with exit code 0
```

```
Run: Calculator x
/Library/Java/JavaVirtualMachines/amazon-corretto-11.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar
Menu:
1)add
2)sub
3)mul
4)div
5)sqrt
6)power
7)mean
8)variance
9)GCD
Enter choice: 7
Please enter end to stop taking input: 10
10
20
30
40
Mean is 3.0
Enter how many numbers you want to enter: 5
```

```
Run: Calculator
/Library/Java/JavaVirtualMachines/amazon-corretto-11.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar
Menu:
1)add
2)sub
3)mul
4)div
5)sqrt
6)power
7)mean
8)variance
9)GCD
Enter choice: 8
Enter how many numbers you want to enter: 3
15
10
15
Variance = 98.000
Process finished with exit code 0
```

```
Run: Calculator
/Library/Java/JavaVirtualMachines/amazon-corretto-11.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar
Menu:
1)add
2)sub
3)mul
4)div
5)sqrt
6)power
7)mean
8)variance
9)GCD
Enter choice: 9
Enter first number: 45
Enter second number: 18
G.C.D of 45 and 18 is 9
Process finished with exit code 0
```

GITHUB LINK: -

https://github.com/anvesha31/Java_assignments/blob/4bea783981e39a207042703887a5fb458b52a898/Assignment%201