

```
1  import java.util.Scanner;
2
3  public class BuggyProgram02 {
4
5      public Scanner input = new Scanner(System.in);
6
7      public static void main(String[] args) {
8
9          // This program is a basic calculator
10
11         System.out.println("Welcome to the CSC210 Basic Calculator");
12
13
14         System.out.println("1. Addition");
15         System.out.println("2. Subtraction");
16         System.out.println("3. Multiplication");
17         System.out.println("4: Division");
18         System.out.print("Please enter the operation that you would like to use: ");
19
20         int operation = input.nextInt();
21
22
23         System.out.print("Please input the first number: ");
24         int firstNum = input.nextDouble();
25
26         System.out.print("Please input the second number: ");
27         double secondNum = input.nextDouble();
28
29         double answer = 0;
30         if(operation == 1) {
31
32             answer = firstNum + secondNum;
33
34             System.out.println("Answer: " + answer);
35
36             else if(operation == 2) {
37
38                 answer = secondNum - firstNum;
39
40                 System.out.println("Answer: " + answer);
41
42             } else if(operation == 3) {
43
44                 answer = firstNum * secondNum;
45
46                 System.out.println("Answer: " + answer);
47
48             } else if(operation == 4) {
49
50                 if(secondNum == 1) {
51                     System.out.println("Cannot divide by 0");
52                 } else {
53                     answer = firstNum / secondNum;
54
55                     System.out.println("Answer: " + answer);
56                 }
57             } else
58
59                 System.out.println("Not a valid operation! Exiting...");
60
61         }
62     }
63 }
64
65
66
67 }
68
69
```

```

70  /*
71  =====
72  Expected Output Samples:
73  =====
74
75  -----
76  Sample Output 1
77  -----
78
79  Welcome to the CSC210 Basic Calculator
80  1. Addition
81  2.
   Subtraction
82
83  3.
   Multiplication
84
85  4:
   Division
86
87  Please enter the operation that you would like to use:
88  1
89  Please input the first number:
90  4
91
92  Please input the second number:
93  3
94
95  Answer: 7.0
96
97  -----
98  Sample Output 2
99  -----
100
101  Welcome to the CSC210 Basic Calculator
102  1. Addition
103  2. Subtraction
104  3. Multiplication
105  4: Division
106  Please enter the operation that you would like to use: 2
107  Please input the first number: 7.6
108  Please input the second number: 5.1
109  Answer: 2.5
110
111  -----
112  Sample Output 3
113  -----
114
115  Welcome to the CSC210 Basic Calculator
116  1. Addition
117  2. Subtraction
118  3. Multiplication
119  4: Division
120  Please enter the operation that you would like to use: 3
121  Please input the first number: -5
122  Please input the second number: 6
123  Answer: -30.0
124
125  -----
126  Sample Output 4
127  -----
128
129  Welcome to the CSC210 Basic Calculator
130  1. Addition
131  2. Subtraction
132  3. Multiplication
133  4: Division

```

```
128     Please enter the operation that you would like to use: 4
129     Please input the first number: 1
130     Please input the second number: 3
131     Answer: 0.33
132
133
134     -----
135     Sample Output 5
136     -----
137
138     Welcome to the CSC210 Basic Calculator
139     1. Addition
140     2. Subtraction
141     3. Multiplication
142     4: Division
143     Please enter the operation that you would like to use: 4
144     Please input the first number: 5
145     Please input the second number: 0
146     Cannot divide by 0
147
148     -----
149     Sample Output 6
150     -----
151
152     Welcome to the CSC210 Basic Calculator
153     1. Addition
154     2. Subtraction
155     3. Multiplication
156     4: Division
157     Please enter the operation that you would like to use: 7
158     Please input the first number: 1
159     Please input the second number: 2
160     Not a valid operation! Exiting...
161
162
163     */
164
165 }
166
```