CSC 1109 Lab 11

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Question 1

Listing 1: calculator.py

```python
1  class calculator:
2      def __init__(self, x, y):
3          self.x = x
4          self.y = y
5
6      def adder(self):
7          print("The sum is: " + str(self.x + self.y))
8          return self.x + self.y
9
10     def subtractor(self):
11         print("The difference is: " + str(self.x - self.y))
12         return self.x - self.y
13
14     def multiplier(self):
15         print("The multiplication is: " + str(self.x * self.y))
16         return self.x * self.y
17
18     def divider(self):
19         print("The quotient is: " + str(self.x / self.y))
20         return self.x / self.y
21
22     def clear(self):
23         self.x = 0
24         self.y = 0
25         print("Numbers are reset to be zero")
26         return self.x, self.y
27
28
29 if __name__ == "__main__":
30     x = int(input("Enter the first number: "))
31     y = int(input("Enter the second number: "))
32     calc = calculator(x, y)
33     calc.adder()
34     calc.subtractor()
35     calc.multiplier()
```

```
36      calc.divider()
37      calc.clear()
```

Listing 2: calculator.py output

```
1  # Output 1
2  Enter the first number: 10
3  Enter the second number: 5
4  The sum is: 15
5  The difference is: 5
6  The multiplication is: 50
7  The quotient is: 2.0
8  Numbers are reset to be zero
9
10 # Output 2
11 Enter the first number: 100
12 Enter the second number: 5
13 The sum is: 105
14 The difference is: 95
15 The multiplication is: 500
16 The quotient is: 20.0
17 Numbers are reset to be zero
```