1.Write a Python program to implement a calculator. Please see the hint and complete the pending code.

Hint

```
operation = input('''
Please type:
+ for addition
- for subtraction
* for multiplication
/ for division
% for remainder
''')
n1 = int(input('Enter your first number: '))
n2 = int(input('Enter your second number: '))
if operation == '+':
```

Complete the code…

2. Write a Python program to implement

a.length of a string.

Input: Python

Output:6

3. Write a Python program to find whether a given positive number is *prime (or) composite (or) neither prime nor composite*.

Input1: 7

Output:prime

Input2: 6

Output:composite

Input3: 1

Output:neither prime nor composite

Hint

Example:7(prime)

7%1 == 0

7%2 != 0

7%3 != 0

7%4 != 0

7%5 != 0

7%6 != 0

7%7 == 0

Factors: 1,7(two factors)

Example:6(composite)

6%1 == 0

6%2 == 0

6%3 == 0

6%4 != 0

6%5 != 0

6%6 == 0

Factors: 1,2,3,6(more than two factors)