

Ques: Write Program and Pseudocode:

Pseudocode:

```

class Calculator
    method add(num1, num2)
        return num1 + num2
    method sub(num1, num2)
        return num1 - num2
    method mul(num1, num2)
        return num1 * num2
    method div(num1, num2)
        return num1 / num2
end class

class ScientificCalculator extends Calculator
    override method multiply(num1, num2)
        set factor to 2.5
        return num1 * num2 * factor
    method expONENT(num1, num2)
        return num1 ^ num2
end class

main
    create calculator Calculator
    print "addition", add(Calculator(2,3))
    print "Subtraction", sub(Calculator(3,2))
    print "multiply", mul(Calculator(2,3))
    print "division", div(Calculator(10,5))

    create ScientificCalculator Scientific
    print "addition", add.Scientific(2,3)
    print "Subtraction", sub.Scientific(4,3)
    print "Multiply", mul.Scientific(2,3)
    print "division", div.Scientific(2,3)
    
```

Ques: Write Program and Pseudocode:

Pseudocode:

```

class Calculator
    method sum(numbers: Integer...)
        set sum to 0
        for each number in numbers
            add numbers to sum
        return sum
    method sum(numbers: Double...)
        set sum to 0
        for each number in numbers
            add numbers to sum
        return sum
end class

main
    create calculator Calculator
    print "Sum of integers", Calculator.sum(1,2,3,4,5)
    print "Sum of doubles", Calculator.sum(1.2, 1.2, 8.2, 4.2)
    
```

String Pseudocode :-

Procedure:

```
declare integer(int)
int n=3
declare String
String A=S
String B=0 // string declaring sos-sos game.
String C=S
// declaring rows & columns
// initializing rows and columns
// Print (S)
// Print (o)
// Print (sos)
```

Library Pseudocode :-

Procedure:

```
// initializing integer(int)
int n=10
declare String
String library=books
// declare in time
double = 14.23
// declare out time
double = 16.24
// declare reading hours
double = 2.3 hrs
Print (library)
Print (timings)
```