Problem statement 2:

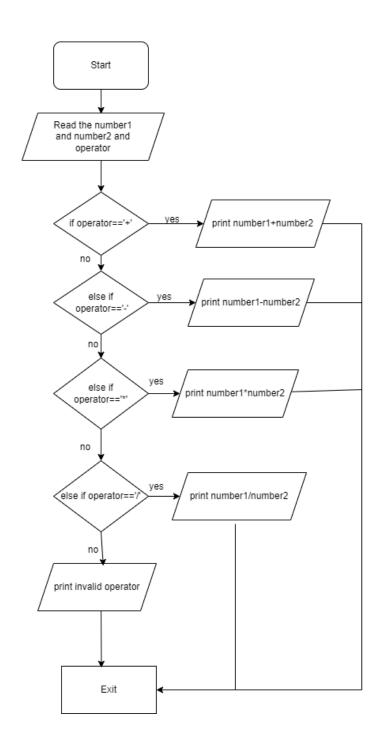
Create a flowchart and pseudocode for a basic calculator program. The calculator should handle addition, subtraction, multiplication, and division operations. Utilize conditional statements to determine the selected operation and include appropriate comments for code clarity.

Solution:

Pseudocode:

```
Calculator(int num1,int num2,String operator):
                                                   //define a function calculator
if (operator=='+'):
                                                   //check for the addition operator
     print("Addition is ",num1+num2)
                                                   //display addition of 2 numbers
else if(operator == '-'):
                                                  //check for the subtraction operator
    print("Subtraction is ",num1-num2)
                                                  //display subtraction of 2 numbers
else if(operator=='*'):
                                                 //check for the multiplication operator
     print("Multiplication is ",num1*num2)
                                                 //display multiplication of 2 numbers
else if(operator=='/' && num2!=0):
                                                 //check for the division operator
     print("Division is ",num1/num2)
                                                 //display division of 2 numbers
else:
                                                 //anyother operators then these four
     print("Invalid operator check and re-enter properly")
endif
define num1 as integer
                                               //read the number1
num1=input()
define num2 as integer
num2=input()
                                               //read the number2
define operator as character
operator=input()
                                               //read the operator + - * /
                                                //call the function calculator
Calculator(num1,num2,operator)
```

Flowchart:



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