Q 1) Write pseudo code that performs the following: Ask a user to enter a number. If the number is between 0 and 10, write the word blue. If the number is between 10 and 20, write the word red. if the number is between 20 and 30, write the word green. If it is any other number, write that it is not a correct color option.

```
Pseudo Code:

START

DISPLAY "Enter a number: "

INPUT number

IF number >= 0 AND number <= 10 THEN

DISPLAY "blue"

ELSE IF number > 10 AND number <= 20 THEN

DISPLAY "red"

ELSE IF number > 20 AND number <= 30 THEN

DISPLAY "green"

ELSE

DISPLAY "It is not a correct color option"

ENDIF
```

Q2) Pseudocode: Print All Multiples of 5 Between 1 and 100

```
START

LET num = 1

WHILE num <= 100 DO

IF num MOD 5 == 0 THEN

DISPLAY num

ENDIF

LET num = num + 1

ENDWHILE

END
```

Q3) Pseudocode: Calculate Average, Minimum, and Maximum

```
START
 LET sum = 0
 LET min = INFINITY
 LET max = -INFINITY
 FOR i = 1 TO 5 DO
   DISPLAY "Enter number ", i, ": "
   INPUT num
   LET sum = sum + num
   IF num < min THEN
     LET min = num
   ENDIF
   IF num > max THEN
     LET max = num
   ENDIF
 ENDFOR
 LET average = sum / 5
 DISPLAY "Average: ", average
 DISPLAY "Minimum: ", min
 DISPLAY "Maximum: ", max
END
```

Q4) Write pseudo code and design the flowchart that reads in three numbers and writes them all in sorted descending order.

```
START
 DISPLAY "Enter first number: "
 INPUT num1
 DISPLAY "Enter second number: "
 INPUT num2
 DISPLAY "Enter third number: "
 INPUT num3
 IF num1 < num2 THEN
   SWAP num1, num2
 ENDIF
 IF num1 < num3 THEN
   SWAP num1, num3
 ENDIF
 IF num2 < num3 THEN
   SWAP num2, num3
 ENDIF
 DISPLAY "Numbers in descending order: ", num1, ", ", num2, ", ", num3
END
Q5) Write pseudo code and design the flowchart that will calculate a running sum. A user
will enter numbers that will be added to the sum and when a negative number is
encountered, stop adding numbers and write out the final result.
START
 LET sum = 0
 DISPLAY "Enter a number:"
 INPUT num
 WHILE num >= 0 DO
```

LET sum = sum + num

DISPLAY "Enter another number : "

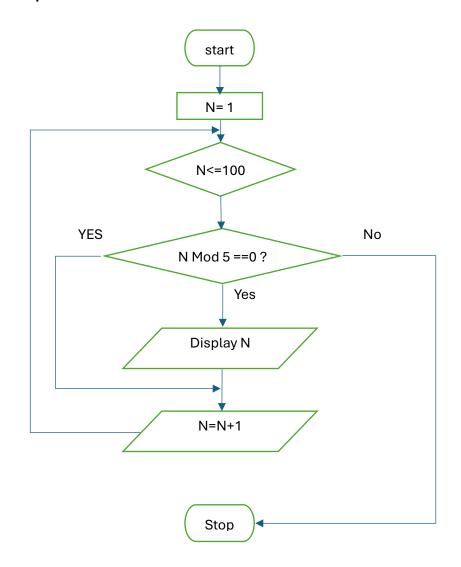
INPUT num

ENDWHILE

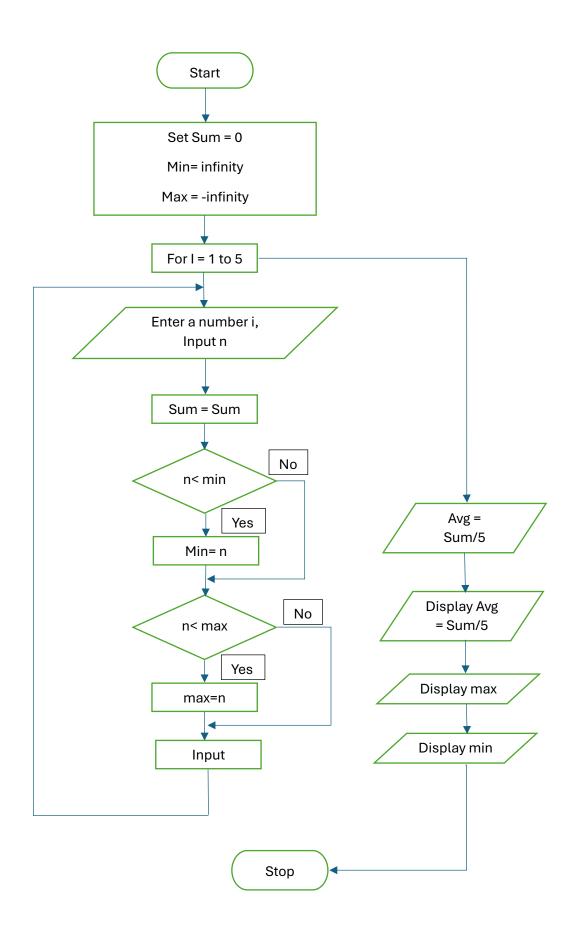
DISPLAY "Final sum: ", sum

END

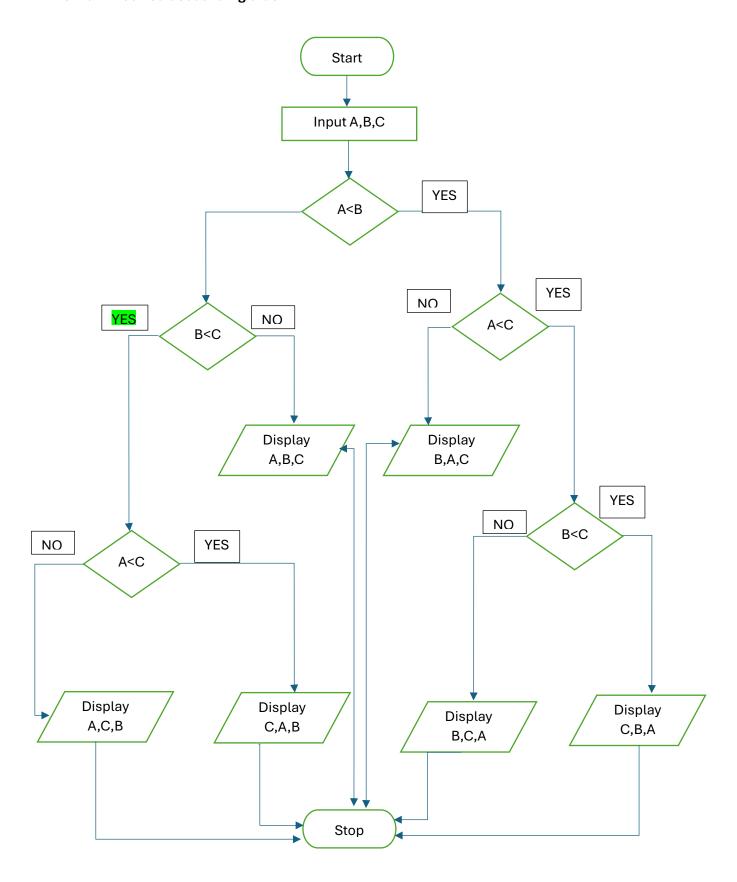
Q2) Print All Multiples of 5 Between 1 and 100



Q3) Calculate Average ,Maximum,Minimum



$\,Q4)$ Write pseudo code and design the flowchart that reads in three numbers and writes them all in sorted descending order.



 $\,Q5)$ Write pseudo code and design the flowchart that reads in three numbers and writes them all in sorted descending order.

