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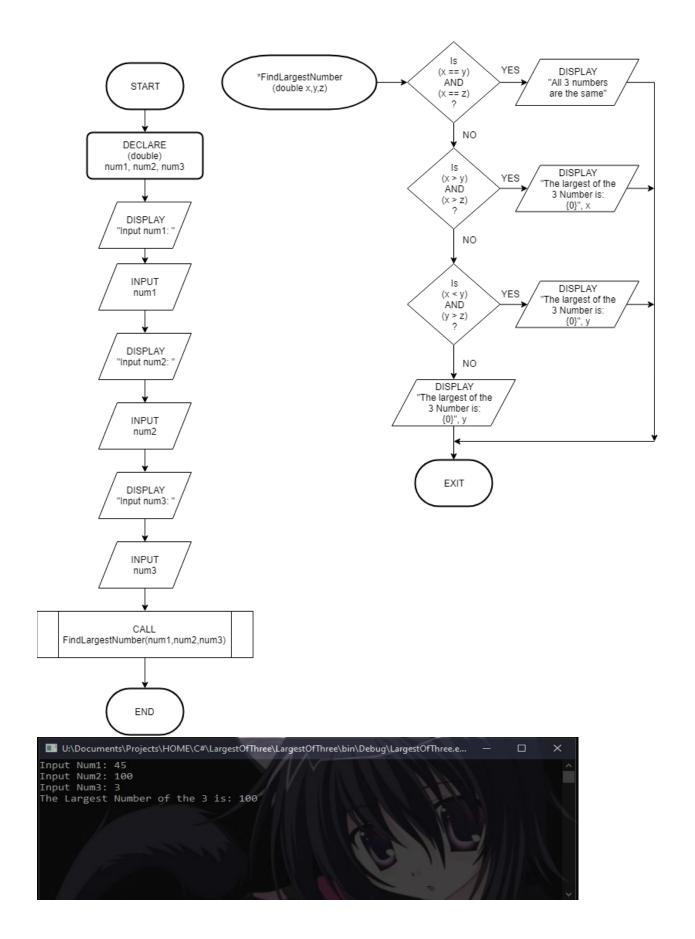
StudentID: 1810111

Labsheet 2

Question 1

```
1.
DECLARE (double) num1, num2, num3
DISPLAY "Input num1: "
Input num1
DISPLAY "Input num2: "
Input num2
DISPLAY "Input num3: "
Input num3
CALL FindLargestNumber(num1, num2, num3)
FUNCTION FindLargestNumber(double x. y, z)
     IF (x == y) AND (x == z) THEN
           DISPLAY "All 3 numbers are the same!"
     ELSEIF (x > y) AND (x > z)
           DISPLAY "The Largest of The 3 is: {0}", x
     ELSEIF (x < y) AND (y > z)
           DISPLAY "The Largest of the 3 is: {0}", y
     ELSE
           DISPLAY "The Largest of the 3 is: {0}", z
     ENDIF
```

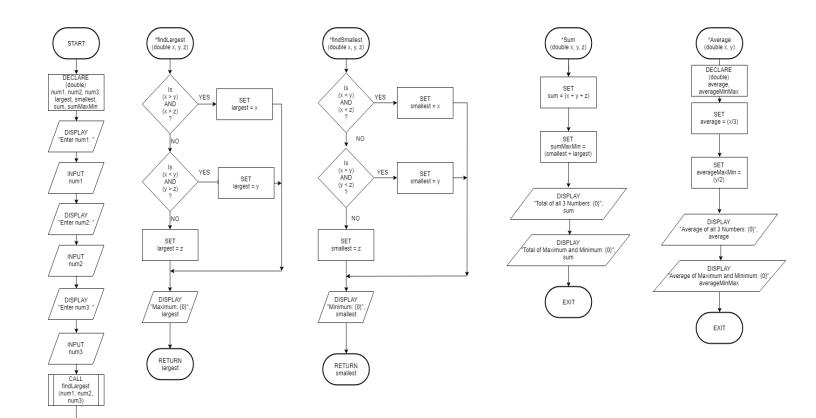
END FUNCTION



```
DECLARE (double) num1, num2, num3, largest, smallest, sum, sumMinMax
DISPLAY "Input num1: "
Input num1
DISPLAY "Input num2: "
Input num2
DISPLAY "Input num3: "
Input num3
CALL FindLargest(num1, num2, num3)
CALL FindSmallest(num1, num2, num3)
CALL Sum (num1, num2, num3)
CALL Average(sum, sumMinMax)
FUNCTION FindLargest (double x. y, z)
     IF (x > y) AND (x > z)
           SET largest = x
     ELSEIF (x < y) AND (y > z)
           SET largest = y
     ELSE
           SET largest = z
     ENDIF
     DISPLAY "The Largest of The 3 is: {0}", largest
END FUNCTION
FUNCTION FindLargest (double x. y, z)
     IF (x < y) AND (x < z)
           SET smallest = x
     ELSEIF (x > y) AND (y < z)
           SET smallest = y
     ELSE
```

```
SET smallest = z
     ENDIF
     DISPLAY "The Smallest of The 3 is: {0}", smallest
END FUNCTION
FUNCTION Sum (double x. y, z)
     SET sum = (x + y + z)
     SET sumMinMax = (smallest + smallest)
     DISPLAY "Total of all 3 numbers is: {0}", sum
     DISPLAY "Total of Minimum and Maximum is: {0}", sum
END FUNCTION
FUNCTION Average (double x. y)
     DECLARE (double) average, averageMinMax
     SET average = (x/3)
     SET averageMinMax = (y/2)
     DISPLAY "Average of all 3 numbers is: {0}", average
     DISPLAY "Average of Minimum and Maximum is: {0}", averageMinMax
```

END FUNCTION



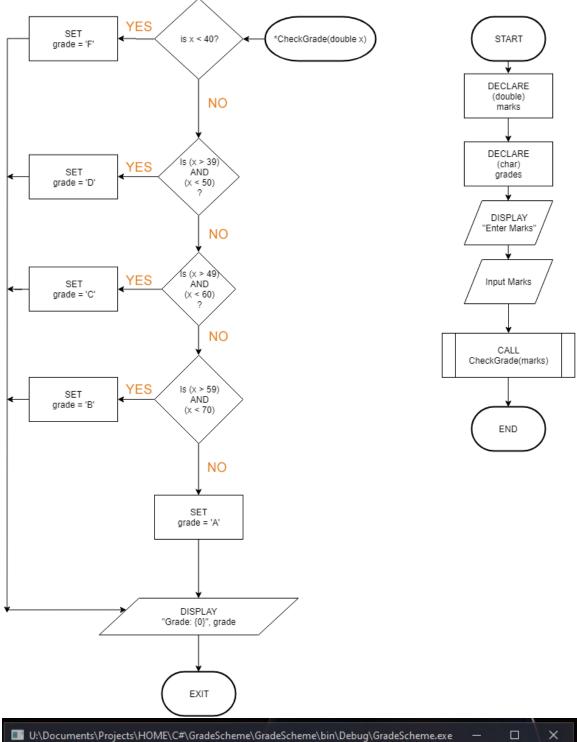


(num1, num2, num3)

CALL Sum (num1, num2, num3)

END

```
DECLARE (double) marks
DECLARE (char) grade
DISPLAY "Input marks: "
Input marks
CALL CheckGrade (marks)
FUNCTION CheckGrade(double x)
     DO
          IF (x < 40) THEN
                SET grade = 'F'
           ELSEIF (x > 39) AND (x < 50)
                SET grade = 'D'
           ELSEIF (x > 49) AND (x < 60)
                SET grade = "C
           ELSEIF (x > 59) AND (x < 70)
                SET grade = 'B'
           ELSE
                SET grade = 'A'
           ENDIF
           DISPLAY "Grade: {0}", grade
           BREAK
     WHILE (true)
END FUNCTION
```

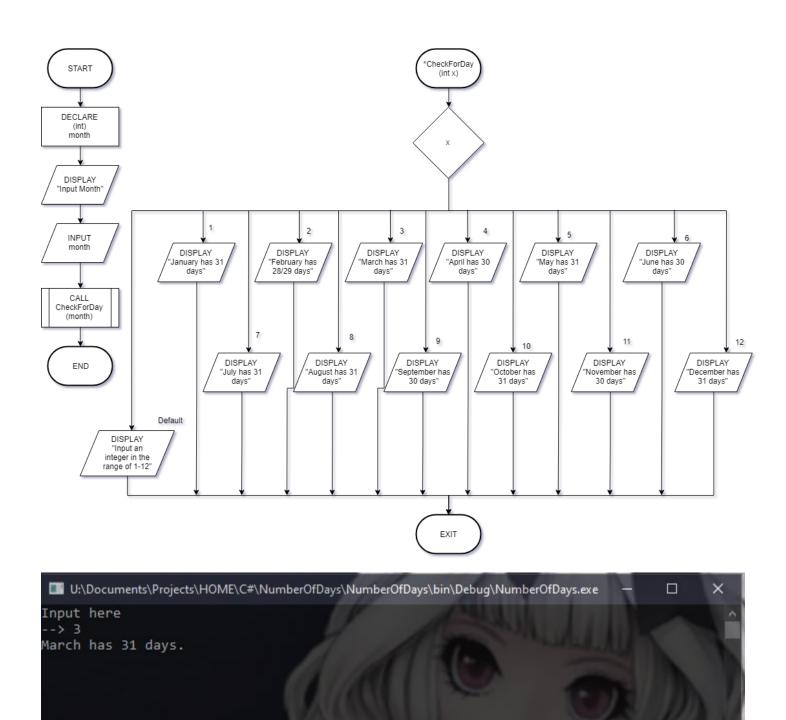




```
DECLARE (int) month
DISPLAY "Input here: "
Input month
CALL CheckForDay (month)
FUNCTION CheckForDay (int x)
     SELECT CASE (x)
          Case 1:
                DISPLAY "January has 31 days"
                BREAK
           Case 2:
                DISPLAY "February has 28/29 days"
                BREAK
           Case 3:
                DISPLAY "March has 31 days"
                BREAK
           Case 4:
                DISPLAY "April has 30 days"
                BREAK
           Case 5:
                DISPLAY "May has 31 days"
                BREAK
           Case 6:
                DISPLAY "June has 30 days"
                BREAK
           Case 7:
                DISPLAY "July has 31 days"
                BREAK
```

```
Case 8:
          DISPLAY "August has 31 days"
          BREAK
     Case 9:
          DISPLAY "September has 30 days"
          BREAK
     Case 10:
          DISPLAY "October has 31 days"
          BREAK
     Case 11:
          DISPLAY "November has 30 days"
          BREAK
     Case 12:
          DISPLAY "December has 31 days"
          BREAK
     Case Default:
          DISPLAY "Input an integer in range of 1-12 Only!"
          BREAK
END SELECT
```

END FUNCTION



Question 2

Step 2: Based on the values to the variables in Step 1, what is the expected output? Hint: The output will be either what is printed to the screen, or nothing.

The condition	Expected Output
If myAge == 31 AND yourAge < myAge Then	
Display "My age is 31 and your age is	
less than that"	
End If	
If myAge <= 35 AND myAge >= 32 Then	
Display "My age is between 32 and 35"	"My age is between 32 and 35"
End If	
<pre>If yourAge == votingAge OR yourAge ></pre>	
votingAge Then	"You can vote"
Display "You can vote"	
End If	
If myNumber == 83 OR yourNumber == 83	
Then	
Display "One of our numbers is 83"	
End If	

Step 3: Based on the values to the variables in Step 1, what is the expected output

The condition	Expected Output
<pre>If myAge == 31 AND yourAge < myAge Then Display "My age is 31 and your age is</pre>	
less than that"	Our ages do not qualify
Else	our ages as not qualify
Display "Our ages do not qualify"	
End If	
If myAge <= 35 AND myAge >= 32 Then	
Display "My age is between 32 and 35"	
Else	My age is between 32 and 35
Display "My age is not within that	wy age is between 32 and 33
range"	
End If	
<pre>If yourAge == votingAge OR yourAge ></pre>	
votingAge Then	
Display "You can vote"	You can vote
Else	
Display "You cannot vote"	
End If	
If myNumber == 83 OR yourNumber == 83	
Then	
Display "One of our numbers is 83"	83 is not our numbers
Else	
Display "83 is not our numbers"	
End If	