***Lab_pr_*1-3 Write an algorithm and draw the flow chart to enter the marks obtained by a student in different subjects and calculate the % of marks obtained in aggregate as per the following conditions:**

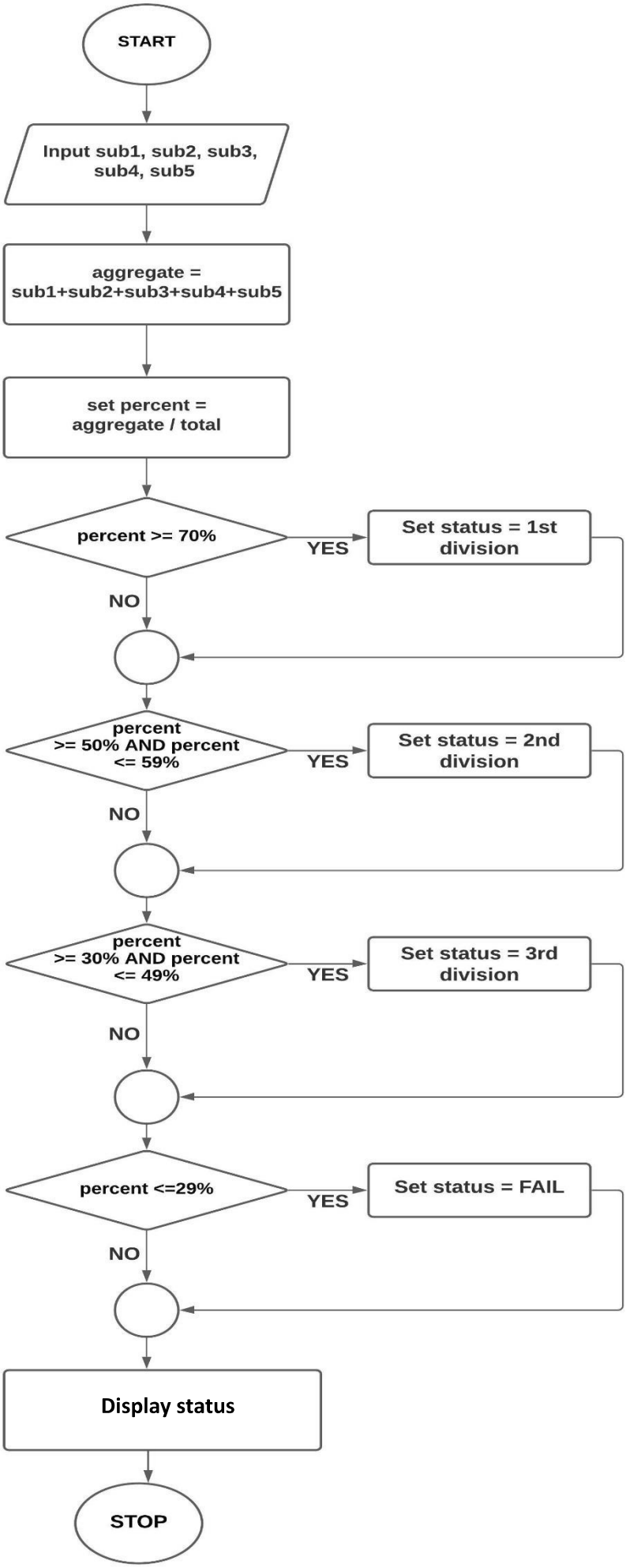
- **If the aggregate mark is less than 30%, print fail.**
- **If the aggregate mark is between 30% to 49%, print 3rd division.**
- **If the aggregate mark is between 50% to 69%, print 2nd division.**
- **If the aggregate mark is equal to or above 70%, print 1st division.**

Algorithm:

```
MarkCalculate(sub1,sub2,sub3,sub4,sub5)
/*This algorithm will take five floating point inputs as marks of five
subjects obtained by a student*/
1. Set aggregate = sub1 + sub2 + sub3 + sub4 + sub5
2. Set percent = ( aggregate / total ) * 100
   /*total is the sum of full marks of each subject*/
3. If percent >= 70% then :
      Set status = 1st division
4. If percent >= 50% AND percent <= 59% then:
      Set status = 2nd dicision
5. If percent >= 30% AND percent <= 49% then:
      Set status = 3rd division
6. If percent <=29%
      Set status = FAIL
```

Flow Chart:

FLOW CHART IN NEXT PAGE


START
Input sub1, sub2, sub3, sub4, sub5
aggregate = sub1+sub2+sub3+sub4+sub5
set percent = aggregate / total
percent >= 70%
YES
Set status = 1st division
NO
percent >= 50% AND percent <= 59%
YES
Set status = 2nd division
NO
percent >= 30% AND percent <= 49%
YES
Set status = 3rd division
NO
percent <=29%
YES
Set status = FAIL
NO
Display status
STOP