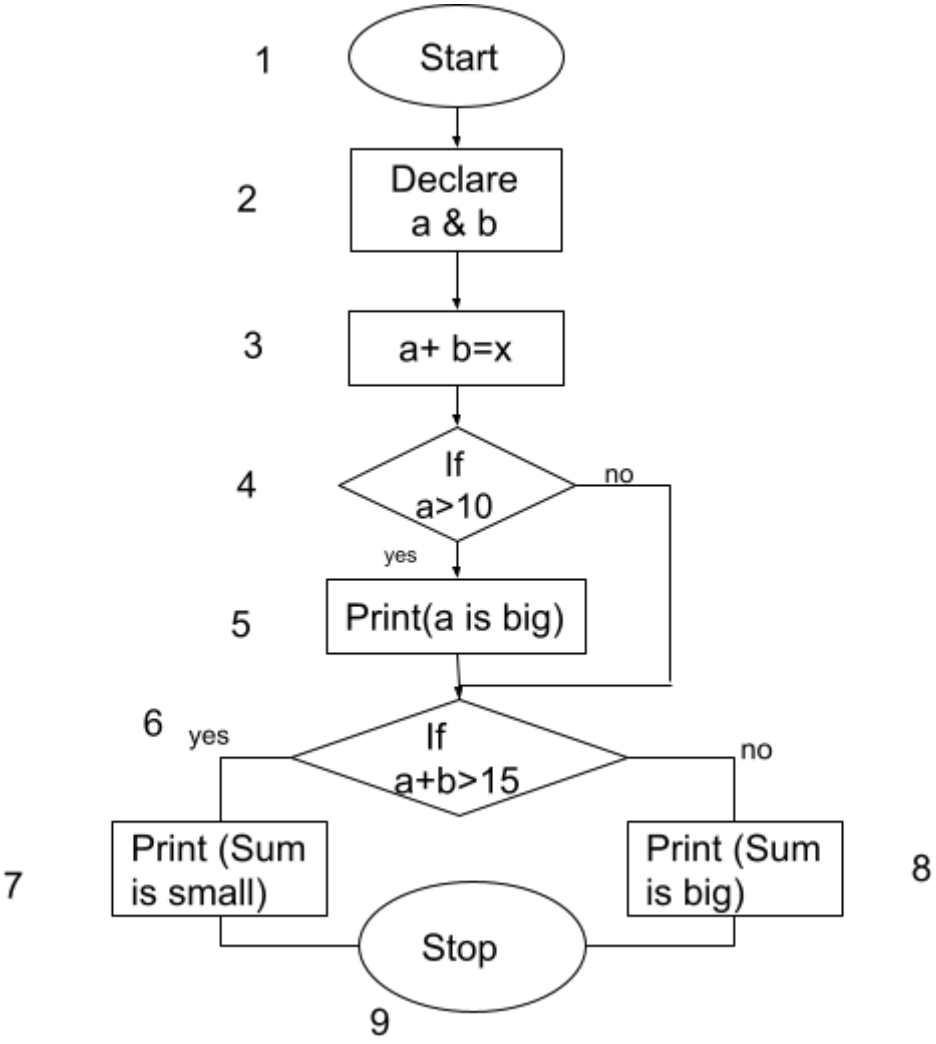
Ques : Write the algorithm for the following flow chart and find the path coverage , complexity , statement coverage .

Flow Chart :



Algorithm : step 1 : Start
step 2 : Declare the value of a and b .
step 3 : add a and b .
step 4 : If a > 10
step 5 : print a is big no .
step 6: else
Step7 : if a+b > 15
step 8 : print the sum is big .
step 9 : else
step 10 : print the sum is small
Step11 : stop

Path coverage : 1-2-3-4-5-6-7-9 , 1-2-3-4-6-7

Statement coverage :
Scenario 1 : if a= 6 , b= 7 ;
Total no. statement = 7 , no. of executed statement = 5 ,
statement coverage = 5 / 7 = 71 %
Scenario 2 : if a= 4 , b= 3 ;
Total no. statement = 7 , no. of executed statement = 6 ,
Statement coverage = 6 / 7 = 85 %

Decision coverage : 50 %