

1. Hierarchy Chart:



Scanned with CamScanner

IPO chart for function- is-valid-score(s)		
INPUT	PROCESSING	OUTPUT
Test Score	This function checks whether test score is in range (0 inclusive to 100 inclusive).	Return Boolean if it is valid (True if in range, false if out of range).

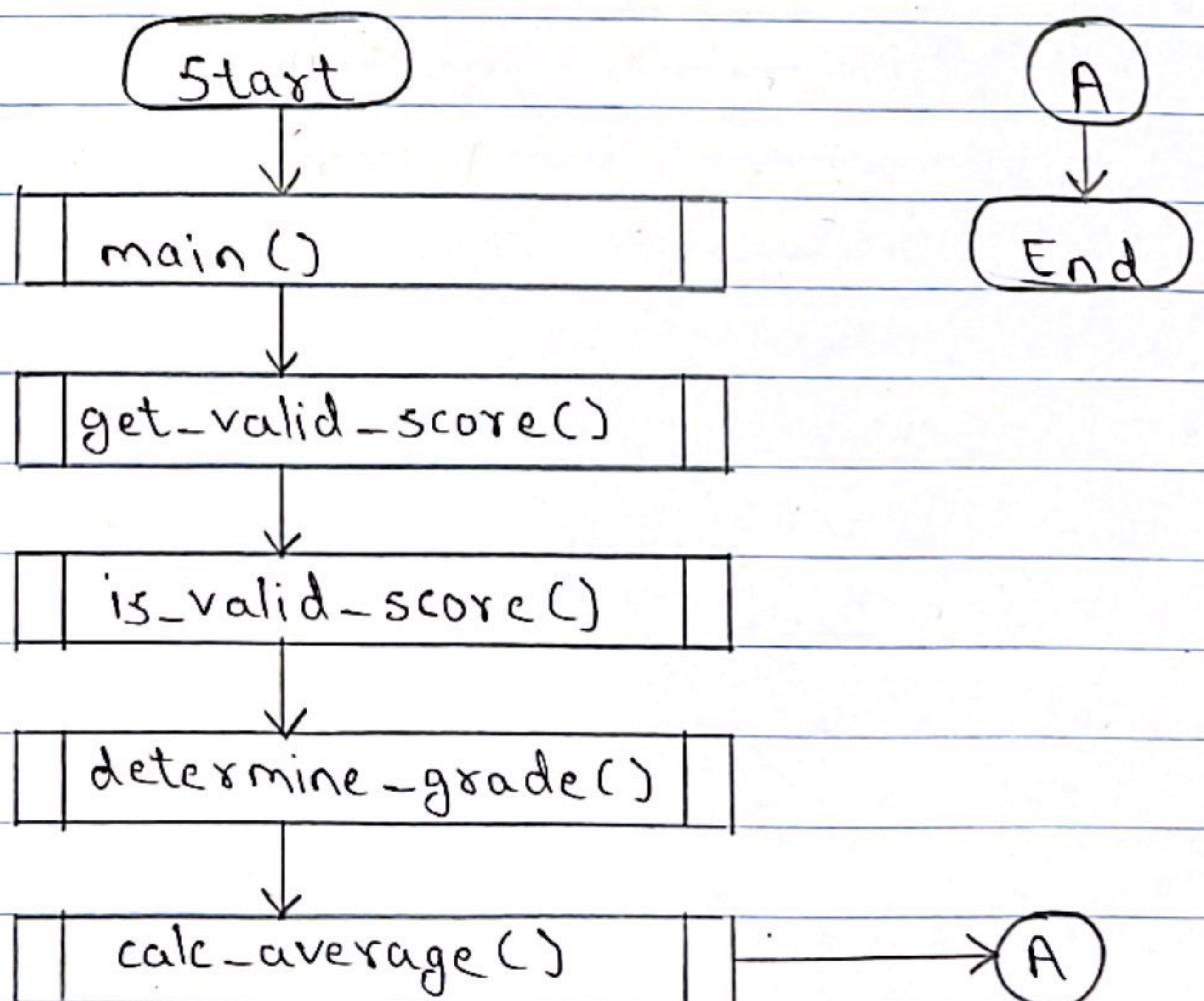
IPO chart for function- determine-grade()		
INPUT	PROCESSING	OUTPUT
Score	Check if score is between 90 and 100 80 and 89 70 and 79 60 and 69 less than 60	Return Grade 'A' Grade 'B' Grade 'C' Grade 'D' Grade 'F'

IPO chart for function- calc-average()		
INPUT	PROCESSING	OUTPUT
score1, score2, score3, score4, score5	Calculate average of five test score.	Return average

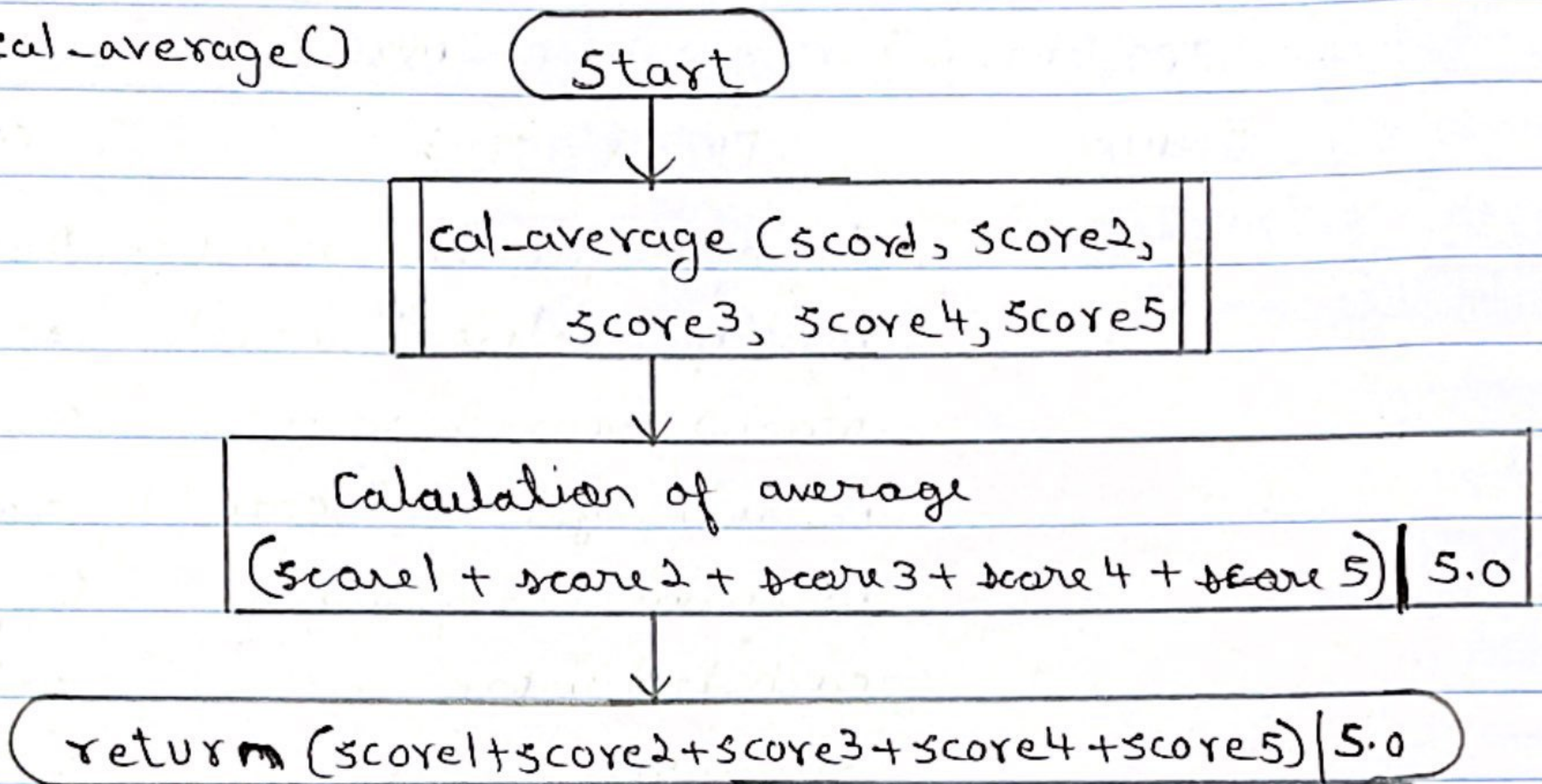
IPO chart for function - main()

INPUT	PROCESSING	OUTPUT
None	Calling a function returning multiple values: score1, score2, score3, score4, score5 = get_valid_score(). Determine the grade of each test using determine_grade(). Calculate average test score using calc_average().	Display score and it's corresponding grade. Display average and it's corresponding grade.

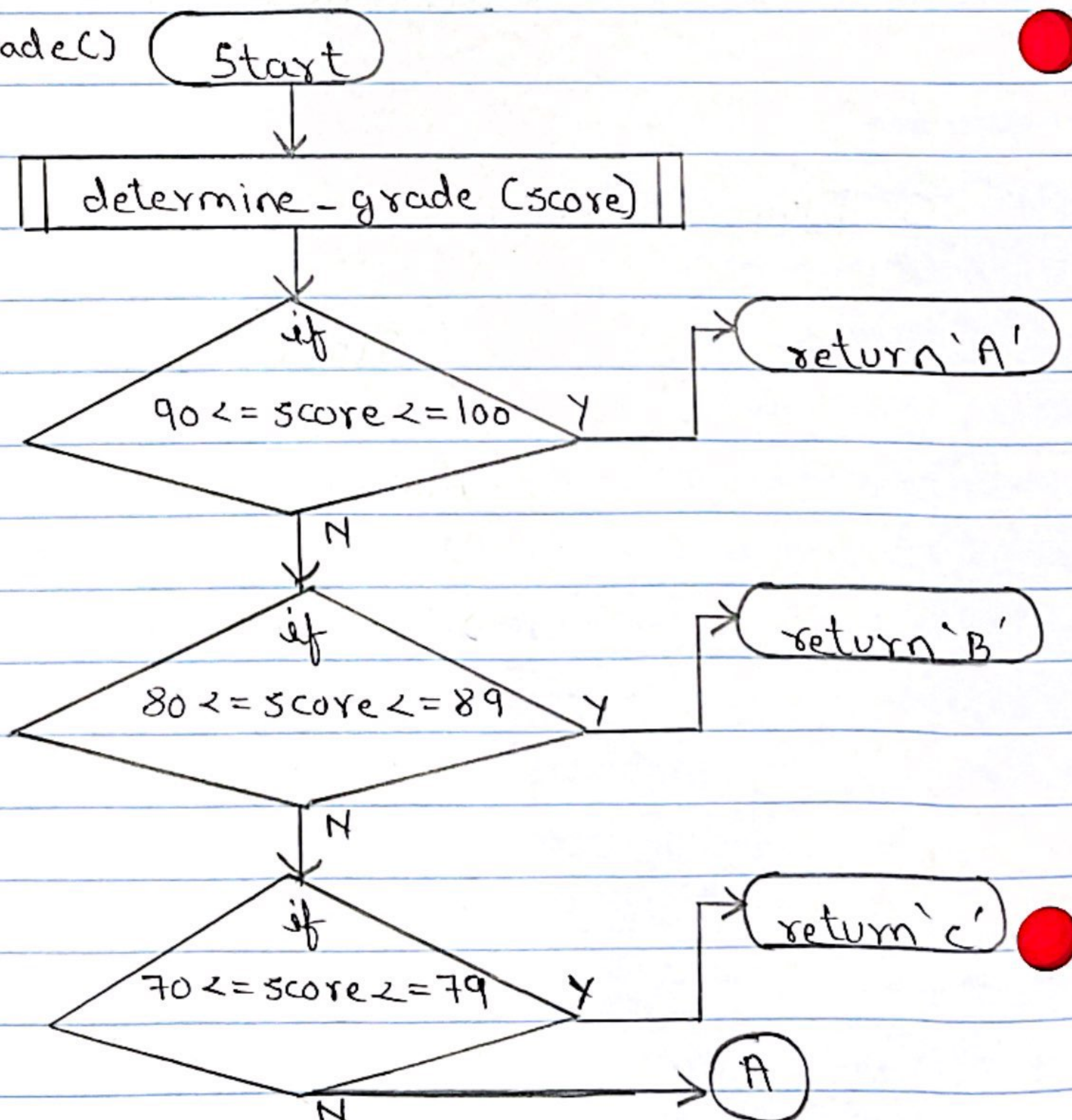
3. Flow Chart:

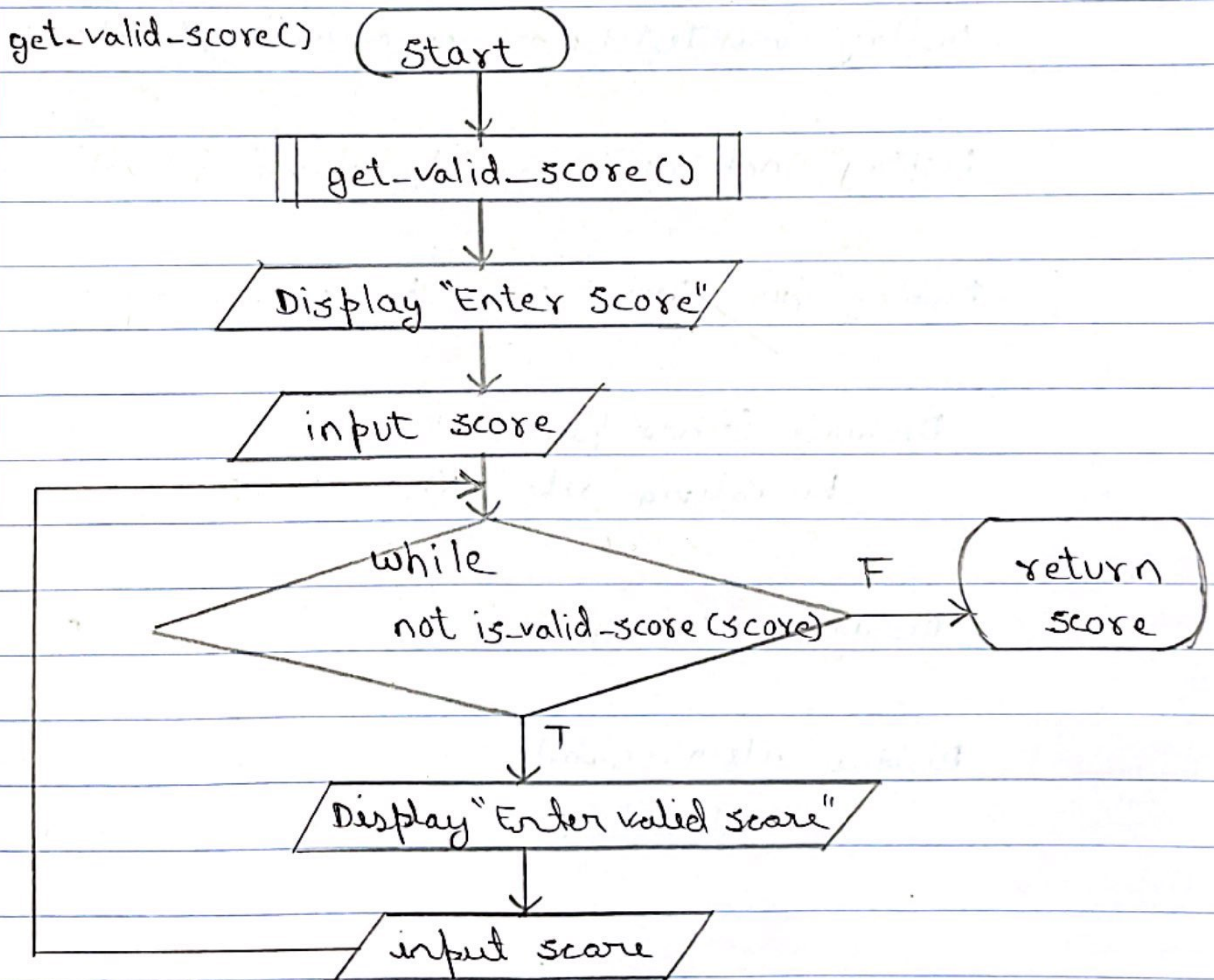
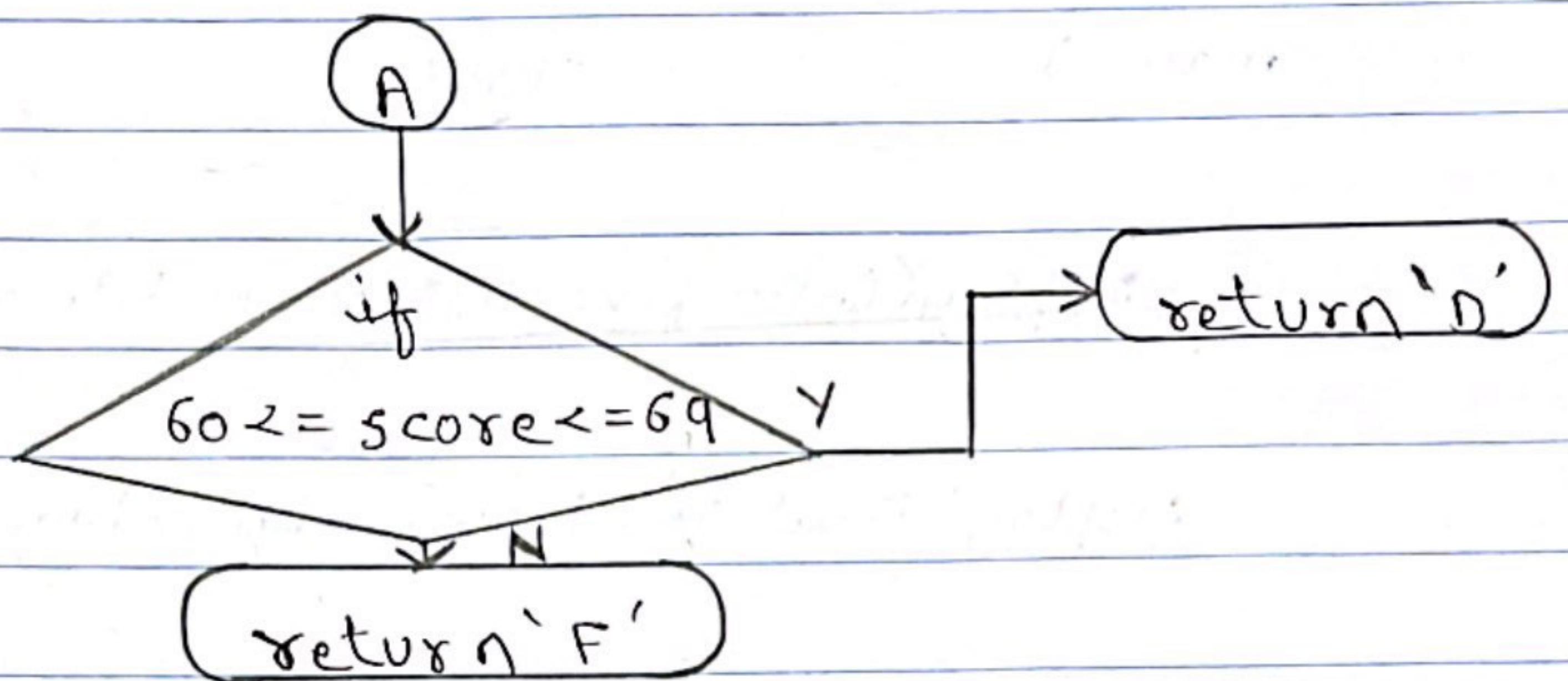


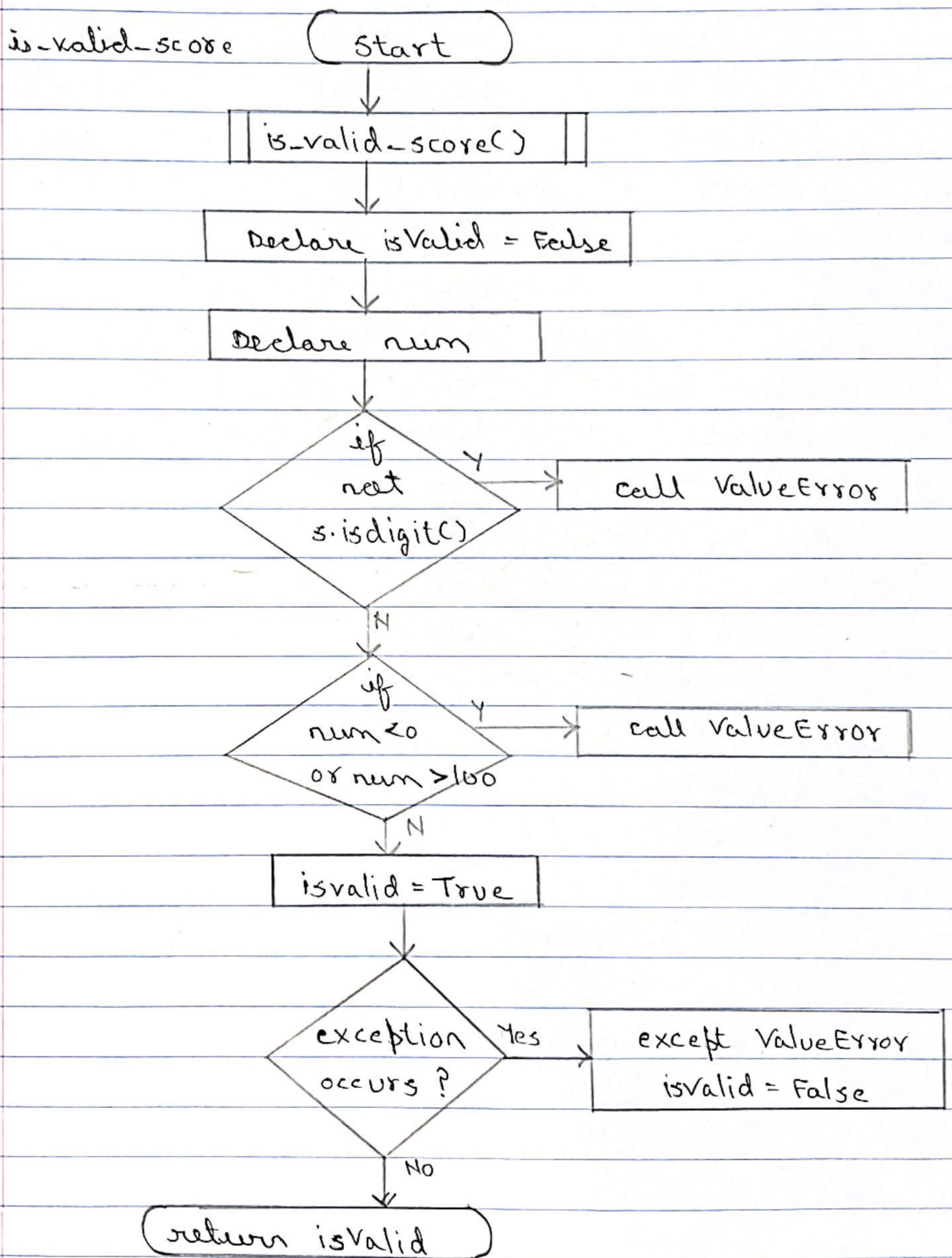
cal-average()



determine-grade()







main()

Start

Display(Enter five test scores between (0-100))

Display "Final Test 1 score" by calling get-valid-score()

Display "Final Test 2 score" by calling get-valid-score()

Display "Final Test 3 score" by calling get-valid-score()

Display "Final Test 4 score" by calling get-valid-score()

Display "Final Test 5 score" by calling get-valid-score()

Display Grade for Test 1, Test 2, Test 3, Test 4, Test 5
by calling determine-grade()

Display average test score by calling cal-average()

Display letter grade for average by calling
cal-average inside determine-grade

End