1) Calculates the second smallest value of an *n given* unsorted elements. Write down the ***pseudocode*** for it**.**

1. ***Start***
2. ***Scan n***
3. ***Scan x_1, x_2, …x_n***
4. ***min=x_1***
5. ***if x_2<min***
6. ***min =x_2***
7. ***min_2=x_1***
8. ***i=2***
9. ***if x_i<min***
10. ***min=x_i***
11. ***i=i+1***
12. ***if i<=n go to step number 9***
13. ***i=2***
14. ***if i<=n***
15. ***if x_i != min go to step number 16***
16. ***if x_i < min_2***
17. ***min_2 = x_i***
18. ***i=i+1***
19. ***if i<=n go to step number 14***
20. ***print min_2***
21. ***End***

2) Calculate the GPA of *n* given courses where the credit of each course is given as the input. Write down the ***pseudocode*** for it.

1. ***Start***
2. ***Scan n***
3. ***Scan $course_1$, $course_2$, $course_3$, … $course_n$***
4. ***Scan $credit_1$, $credit_2$, $credit_3$, … $credit_n$***
5. ***$credit_{total}$=0***
6. ***$course_{total}$=0***
7. ***i=1***
8. ***$course_{total}$= $course_{total}$ + ($course_i$*$credit_i$)***
9. ***$credit_{total}$=$credit_{total}$ + $credit_i$***
10. ***i=i+1***
11. ***if i<=n go to step 7***
12. ***GPA= $course_{total}$/ $credit_{total}$***
13. ***Print GPA***
14. ***End***