1.	**Define recursive functions that calculate and return:** **a) Factorial of a number** **b) a^b** **c) n^{th} Fibonacci number** **Hint:** **a) n! = n * (n-1)!** **b) $a^b = a * a^{b-1}$** **c) Each Fibonacci number is the addition of previous two Fibonacci numbers**
2.	**Consider you are travelling by air from Source S to Destination D. In between there is a single stop at a city C. If the duration of each flight is given along with the duration of the stop-over, calculate the total journey time. The time must be given in hours and minutes.** Sample input/output: Enter duration of flight 1 (from S to C) 5 20 Enter duration of flight 2(from C to D) 3 51 Enter duration of layover 4 30 Total journey time is: 13 hours 41 minutes