**ASSIGNMENT- 1**

**ANS:1**

The time complexity is O(n+m). Since first for loop would be executed n times and its time complexity would be O(n), and the second loop would be executes ‘m’ times results in time complexity as O(m).

So, the total time complexity for this given function calculates as O(n+m).

**ANS:2**

When we say that an algorithm X is asymptotically more efficient than Y, it means:

a) X will be a better choice for all inputs.