**ASSIGNMENT 1**

**Q1. Time complexity :**

Ans. Since there are 2 for loops running N and M times respectively, the time complexity of program is O(N+M).

**Space Complexity :**

Ans: Since there is no additional space being utilized, the space complexity is constant that is, O(1).

**Q2. What does it mean when we say that an algorithm X is asymptotically efficient than Y?**

Ans. b) X will be a better choice for all inputs except possibly small inputs.