**Q1) What is time and space complexity ?**

**Answer: the amount time and space taken up by an algorithm code as function of input size.**

**Q.2)Constant Time Complexity?**

**Answer: O(1) it is constant time complexity which taken linear time.**

**Note: Always think about worst case time complexity.**

**Q.3) What is Big O Notation?**

**Answer: 1) ignore constant always.**

**2) largest term.**

**Note:3)Always thinking about upper bound.**

**Ex. an^2+bn+c**

**Time complexity= an^2 because it is worst time complexity.**

**Q.4)Big Omega Notation**

**Answer: it is always is showing best time complexity.**

**Q.4) Big Theta:**

**Answer: it is showing average case time complexity.**

**Video 5th**

**Common Complexity :**

**Video 6th:Space Complexity**

**Input space+ auxiliary space**

**We always need auxiliary space it is showing how much extra memory should needed.**