**Assignment 2 - Day 2**

**Question 1**

What is the time, space complexity of following code:

int a = 0, b = 0;

for (i = 0; i < N; i++) {

a = a + 1;

}

for (j = 0; j < M; j++) {

b = b + j;

}

**Ans) Time complexity for above code is T = O(N)**

**Space complexity for above code is S = O(N)**

**Question 2**

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

**Ans) B)X will be a better choice for all inputs except possibly small inputs**

**Question 3**

Write a Python program to print even numbers in a list

**Program :-**.

**list = [int(i) for i in input("Enter values : ").split()]**

**print("List = ", list)**

**evenList = []**

**for i in list:**

**if i % 2 == 0:**

**evenList.append(i)**

**print(evenList)**