Course Title: Computer Organization and Assembly Language

Task: Assignment 2

Section: BCS-3A, BCS-3B

Date: 15th Oct, 2022

Weightage: 2%

**Q1.** Consider the data given below:

data: dw 60, 40, 50, 22, 5

data2: db 3, 4, 1, 9, 6

Modify the code given in Ex 5.3. to sort the data arrays namely data and data2 using subroutine. However, you are only allowed to write one subroutine for this task. That is, you cannot write separate subroutines for byte sized and word sized data arrays. (25)

**Q2.** Write a recursive subroutine “fibo” to realize the following functionality:

**int fibo(int x){**

**if (x==1 || x==0)**

**return x;**

**else**

**return fib(x-1)+fib(x-2);**

**}** (25)