# **Lab-2 Question**

Time: 1hr 20 min Maxi	mum Marks: 60
General Instruction:	
<ul> <li>Binary marking will be there that is 20 or 0 marks.</li> <li>If your code is successfully compiled and the desired output is pwe will check for the code otherwise, 0 marks.</li> <li>Time allotted is 1hr 30 mins for solving the problems and 10 min zipping the files and uploading them to the classroom</li> <li>No request for late submission will be entertained in any circums</li> <li>Submit all your codes using the proper naming convention (reach question) and put all files in a folder.</li> <li>Naming Convention: "Name_Roll Number.zip", and upload it.</li> <li>* No .rar compression files will be accepted.</li> </ul>	a dedicated for stances.
Question 1: Addition of two numbers in assembly langua	
Task:	
Create a program to add two numbers and store the result in a register.	
Description:	
Write an assembly program that:	
<ol> <li>Defines two numbers in the data section.</li> <li>Loads these numbers into registers.</li> <li>Adds the numbers.</li> <li>Stores the result in a memory location named result.</li> <li>Exits the program.</li> </ol>	
Submission Guidelines:	
1. <b>File Naming:</b> Save your assembly program as addition.asm.	
Question 2: Fibonacci number in assembly	(Marks: 20)

## Task:

Create a program to iteratively find the nth Fibonacci number. The value for n should be set as a parameter (e.g., a programmer defined constant)

## **Description:**

The formula for computing Fibonacci is as follows: fibonacci(n) =  $\{ n \text{ if } n=0 \text{ or } n=1 \text{ fibonacci}(n-2) + \text{ fibonacci}(n-1) \text{ if } n \ge 2 \}$ 

- 1. Correct code
- 2. Use the debugger to execute the program and display the final results
- 3. Test the program for various values of n

#### **Submission Guidelines:**

2. File Naming: Save your assembly program as fibonacci.asm.

# Question 3: Write a shell script program to print the first 5 lines of a File

(Marks: 10)

### **Submission Guidelines:**

- 3. File Naming: Save your .sh program as first\_05\_Line.sh
- 4. If file contains the fewer than 5 lines, then print also

Question 4: Write a shell script program to count the occurrences of words in a file. (Marks: 20)

#### **Submission Guidelines:**

- 5. File Naming: Save your .sh program as count\_word .sh
- If a word is not present in the file give the proper error message