**Computer Organization & Architecture Lab**

**Lab Report # 04**



Submitted By: **AWAIS SADDIQUI**

Registration No: **21PWCSE1993**

Section: **“A”**

“On my honor, as student at University of Engineering and

Technology, I have neither given nor received unauthorized.

assistance on this academic work”



**Student Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Submitted to:

**Dr. Bilal Habib**

**Department of Computer Systems Engineering**

**University of Engineering and Technology, Peshawar.**

**ASSESSMENT RUBRICS COA LABS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **LAB REPORT ASSESSMENT** | | | | |
| **Criteria** | **Excellent** | **Average** | **Nill** | **Marks Obtained** |
| 1. **Objectives of Lab** | All objectives of lab are properly covered  [Marks 10] | Objectives of lab are partially covered  [Marks 5] | Objectives of lab are not shown  [Marks 0] |  |
| 1. **MIPS instructions with**   **Comments and proper indentations.** | All the instructions are well written with comments explaining the code and properly indented  [Marks 20] | Some instructions are missing are poorly commented code  [Marks 10] | The instructions are not properly written  [Marks 0] |  |
| 1. **Simulation run without error and warnings** | The code is running in the simulator without any error and warnings  [Marks 10] | The code is running but with some warnings or errors.  [Marks 5] | The code is written but not running due to errors  [Marks 0] |  |
| 1. **Procedure** | All the instructions are written with proper procedure  [Marks 20] | Some steps are missing  [Marks 10] | steps are totally missing  [Marks 0] |  |
| 1. **OUTPUT** | Proper output of the code written in assembly  [Marks 20] | Some of the outputs are missing  [Marks 10] | No or wrong output  [Marks 0] |  |
| 1. **Conclusion** | Conclusion about the lab is shown and written  [Marks 20] | Conclusion about the lab is partially shown  [Marks 10] | Conclusion about the lab is not shown[Marks0]  [Marks 0] |  |
| 1. **Cheating** |  |  | Any kind of cheating will lead to 0 Marks |  |
| Total Marks Obtained:\_\_\_\_\_\_\_\_\_\_  Instructor Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | |

**DATA TRANSFER IN MIPS**

**Task 01:**

*Load a value from memory and add 10 to it. Store the result back in memory and show*

*the result on console.*

**Code:**

A close-up of a person

Description automatically generated

**Output:**

**A white background with black text

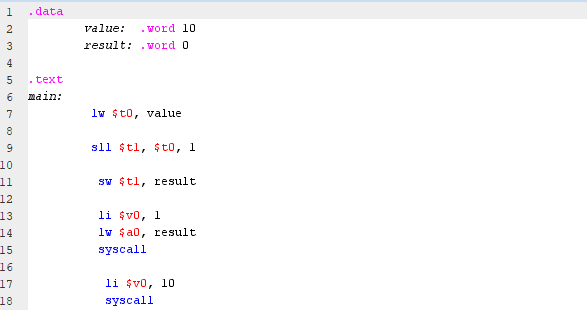
Description automatically generated**

**Task 02:**

*Load a value from memory and double it. Store the result back in memory also show on*

*the console.*

**Code:**



**Output:**

**A close-up of a person's hand

Description automatically generated**

**Task 03:**

*Load an address of a label into a register and jump to that address and perform addition*

*in that address.*

**Code:**

A screenshot of a computer

Description automatically generated

**Output:**

**A computer screen shot of a person holding a pen

Description automatically generated**

**Task 04:**

*Write assembly program to find the Fibonacci series.*

**Code:**

A screenshot of a computer code

Description automatically generated

A screenshot of a computer program

Description automatically generated

**Output:**

