**Assignment 1**

**CLO1-Introduction to Embedded Systems**

**Instructions:**

**This is an individual task.**

**Only hand written submission will be accepted.**

**No late submission will be accepted.**

**Marks: 10**

1. What is the difference between RISC and CISC architecture?
2. Discuss RISC-V architecture in detail. **What is the difference between soft-core and hard-core RISC-V implementations?**
3. Use a **loop-based delay** to blink an **LED on RB0** with a **500ms delay** (without using timers).
4. Write a program to calculate the sum of the first **N numbers (N = 10)** and store the result in **file register 0x20.**
5. Implement a loop that decrements a value from **100 to 0** and displays it on **PORTD.**