

**Department of Computer Science & Engineering**

**Microprocessor & Computer Architecture**

**MPCA-Laboratory/Assignment/Hands-on/Project**

**UE20CS252**

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| **Sl. No** | **Programs** |
| **Week No.1** | * **Sample programs (Mostly done in the Theory Class)** * Write an ALP using ARM instruction set to add and subtract two 32 bit numbers. Both numbers are in registers. * Write an ALP to demonstrate logical operations. All operands are in registers. * Write an ALP to add 5 numbers where values are present in registers.   **2. Assignment: (During Hands-on Hour / Practical session)**   * Write an ALP using ARM instruction set to check if a number stored in a register is even or odd. * Write an ALP to compare the value of R0 and R1, add if R0 = R1, else subtract. * Based on the value of the number in R0, Write an ALP to store 1 in R1 if R0 is zero, Store 2 in R1 if R0 is positive, Store 3 in R1 if R0 is negative. |

**Course Information**