



Department of Computer Science & Engineering
Microprocessor & Computer Architecture
MPCA-Laboratory/Assignment/Hands-on/Project
UE20CS252

Sl. No	Programs
Week No.3	<ol style="list-style-type: none">1. Write a program in ARM7TDMI-ISA to find GCD of two numbers.<ol style="list-style-type: none">a. Assume operands to be in the CPU registersb. Assume operands in the memory locations.2. Write a program in ARM7TDMI-ISA to find the sum of N data items in the memory. Store the result in the memory location.<ol style="list-style-type: none">a. Use Pre-indexing addressing modeb. Use Post- Indexing addressing modec. Use Auto-indexing addressing mode3. Write a program in ARM7TDMI-ISA to find the sum of N data items at alternate [odd or even positions] locations in the memory. Store the result in the memory location.<ol style="list-style-type: none">a. Use Pre-indexing addressing modeb. Use Post- Indexing addressing modec. Use Auto-indexing addressing mode4. Write a program in ARM7TDMI-ISA to search for an element in an array. Store 00 if the search is unsuccessful and 01 if the search is successful in the register.<ol style="list-style-type: none">a. Use Linear Search Techniqueb. Use Binary search Technique