

**Department of Computer Science & Engineering**

**Microprocessor & Computer Architecture**

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

**UE20CS252**

**PES1UG20CS516 Vrushank G Sec-I**

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| **Sl. No.** | **Programs** |
| **Week No. 2** | 1. Write a program in ARM7TDMI–ISA to copy a block of N data items from Location A to Location B. 2. Use Full word (.word directive)     Output:     1. Use Half word(.Hword directive)     Output:     1. Use Byte wise (.Byte directive)     Output:     1. Write a program in ARM7TDMI–ISA to find the sum of N data items in the memory. Store the result in the memory location. 2. Use Full word (.word directive)     Output:     1. Use Half word(.Hword directive)     Output:     1. Use Byte wise (.Byte directive)     Output:     1. Write a program in ARM7TDMI–ISA to find the sum of N natural numbers. Store the result in the memory location.     Output:     1. Write a program in ARM7TDMI–ISA to find the product of two 32–bit numbers using barrel shifter.     Output:     1. Convert the following statement in C language into an ALP using ARM7TDMI – ISA.   IF([A]==[B]) then C=[A]+[B];  ELSE IF ([B]==[C]) D=[A]-[B];  ELSE E=[A]\*[B]  Where A,B, C, D & E are memory locations.  Case1:    Output:    Case 2:    Output:    Case 3:    Output: |