

**Department of Computer Science & Engineering**

**Microprocessor & Computer Architecture**

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

**UE20CS252**

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**SRN : PES2UG20CS390 DATE : 31/01/2022**

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|  | 1. Write a program in ARM7TDMI-ISA to copy a block of N data items from Location A to Location B.  a. Use Full word (.word directive)  b. Use Half word(.Hword directive)  c. Use Byte wise (.Byte directive)  **Screenshots:**   1. **Using full word.**      1. **using half word.**     c)**using byte.**    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.  a. Use Full word (.word directive)  b. Use Half word(.Hword directive)  c. Use Byte wise (.Byte directive)  {1,2,3,4,5}  **Screenshots:**   1. **using full word.**     **b)Using half word.**    **c)Using byte.**    3. Write a program in ARM7TDMI-ISA to find the sum of N natural numbers. Store the result  in the memory location.  **Screenshot:**    5. 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.  **Screenshots:**  **a)when A and B are equal:**    **b) when B and C are equal:**    **c) When A,B,C are different:**    6. Write a program in ARM7TDMI-ISA to find the factorial of a number.  **Screenshot:**      **Execute question 1,2,3,5,6** |