

**Department of Computer Science & Engineering**

**Microprocessor & Computer Architecture Lab**

**Lab\_2 Programs**

**UE23CS251B**

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| Name of Student: | | SRN: |
| 1 | Write an ALP using ARM7TDMI to perform to multiplication of 16X25without using MUL instructions.  (Hint: barrel shifter instructions.)  (Note : Any number can be considered as multiplier) | |
| 2 | Write an ALP using ARM7TDMI to add only even numbers stored in memory location for a given set of numbers and store the sum in the memory location.  Array:. WORD 15,10,12,13,9,45,16,8,25,33  evensum:. WORD | |
| 3 | Write a ALP using ARMTDMI-ISA to store odd and even numbers in separate memory locations starting from LOCA and LOCB respectively  ARRAY: .word 10,50,41,55,30,20,11,5,100,77  LOCA: .word 0,0,0,0,0,0  LOCB: .word 0,0,0,0,0,0 | |
| 4 | Write an ALP using ARM7TDMI to find the largest number from a given set of numbers:  A: .word 10,50,41,55,30,20,11,5,100,77 | |
|  | Assignments Questions | |
| 5 | Write an ALP using ARM7TDMI to find whether the given number is even parity. | |
| 6 | Write an ALP using ARM7TDMI to multiplication of 38X72 without using MUL instructions.  (Hint: barrel shifter instructions.)  (Note :any number can be considered as multiplier) | |

**Note:**

* Link to upload the file:
  + Will be provided by the respective Theory Teacher
* Upload PDF only.
* Save your file with your SRN \_ Name(Note:SRN to be in capital letter)

Note:if other than this Name will be rejected.