

Department of Computer Science & Engineering Microprocessor & Computer Architecture MPCALaboratory/Assignment/Handson/Project UE20CS252

NAME: VISHWAS M

SEC : F

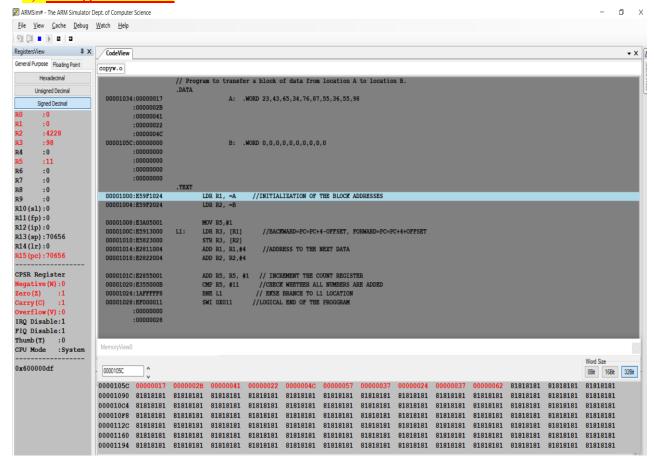
SRN: PES2UG20CS390

DATE : 31/01/2022

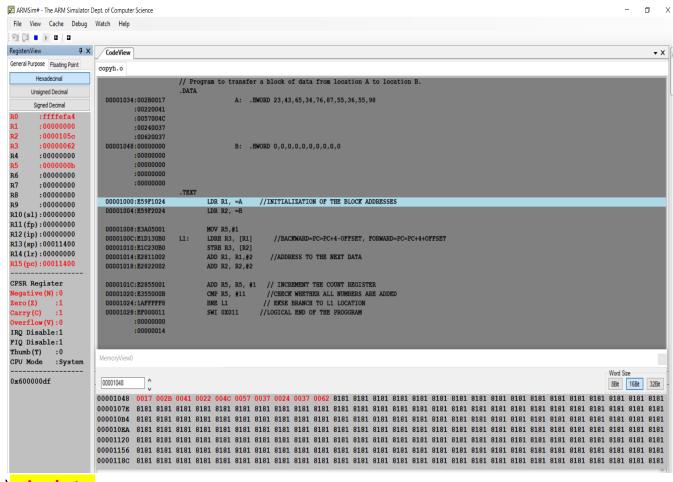
- 1. Write a program in ARM7TDMI-ISA to copy a block of N data items from Location A to Location
 - a. Use Full word (.word directive)
 - b. Use Half word(.Hword directive)
 - c. Use Byte wise (.Byte directive)

Screenshots:

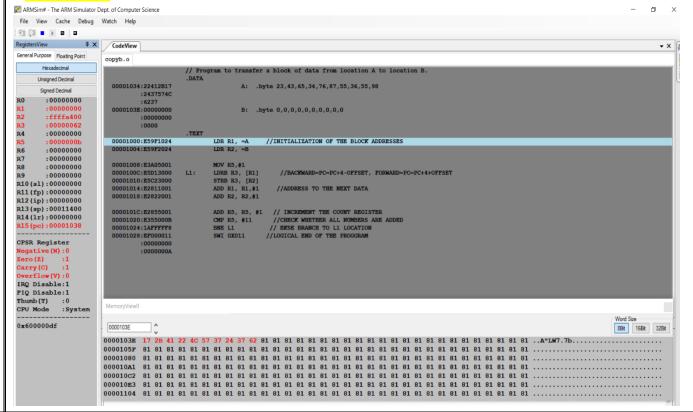
a) Using full word.



b) using half word.



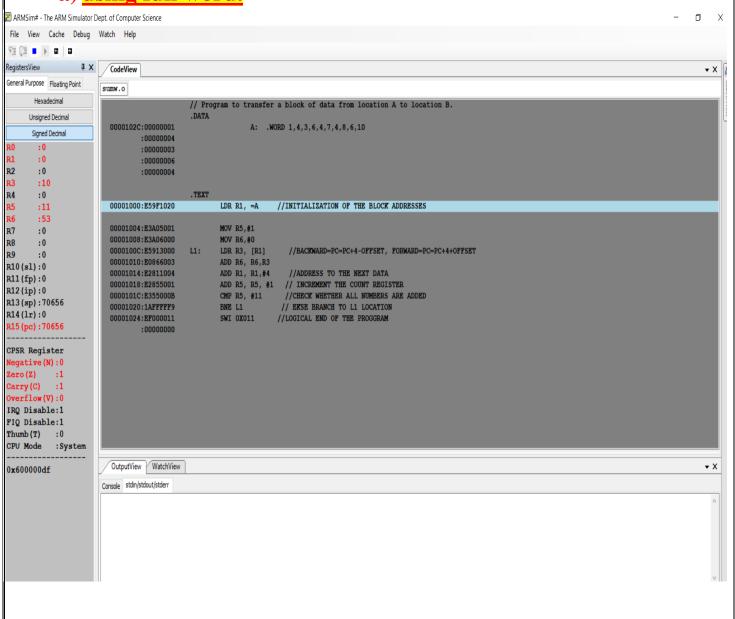
c)using byte.



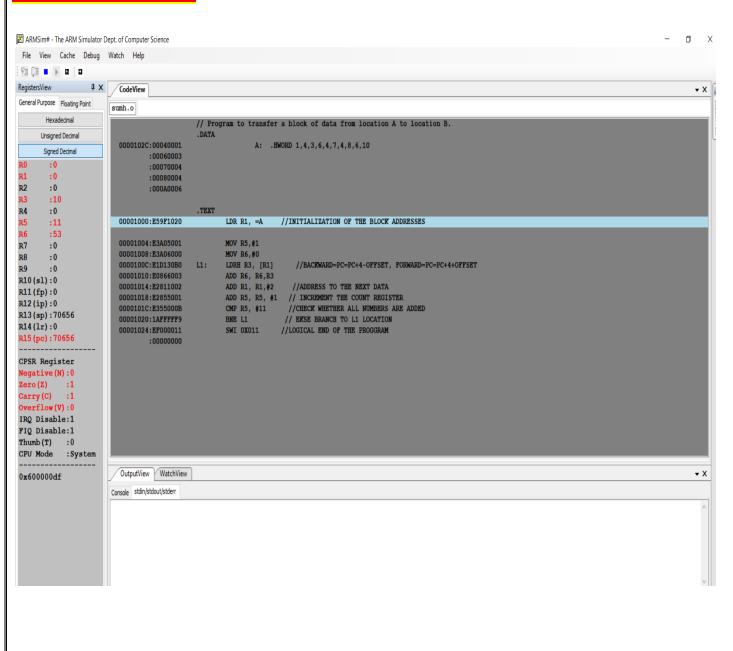
- 2. Write a program in ARM7TDMI-ISA to find the sum of N data items in the memory. Store the result in the memory location.
 - a. Use Full word (.word directive)
 - b. Use Half word(.Hword directive)
 - c. Use Byte wise (.Byte directive)
 - {1,2,3,4,5}

Screenshots:

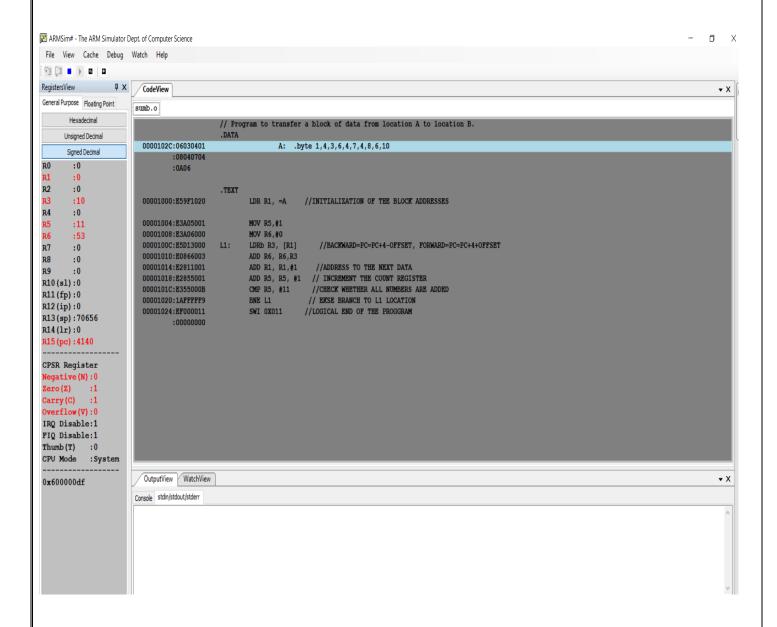
a) using full word.



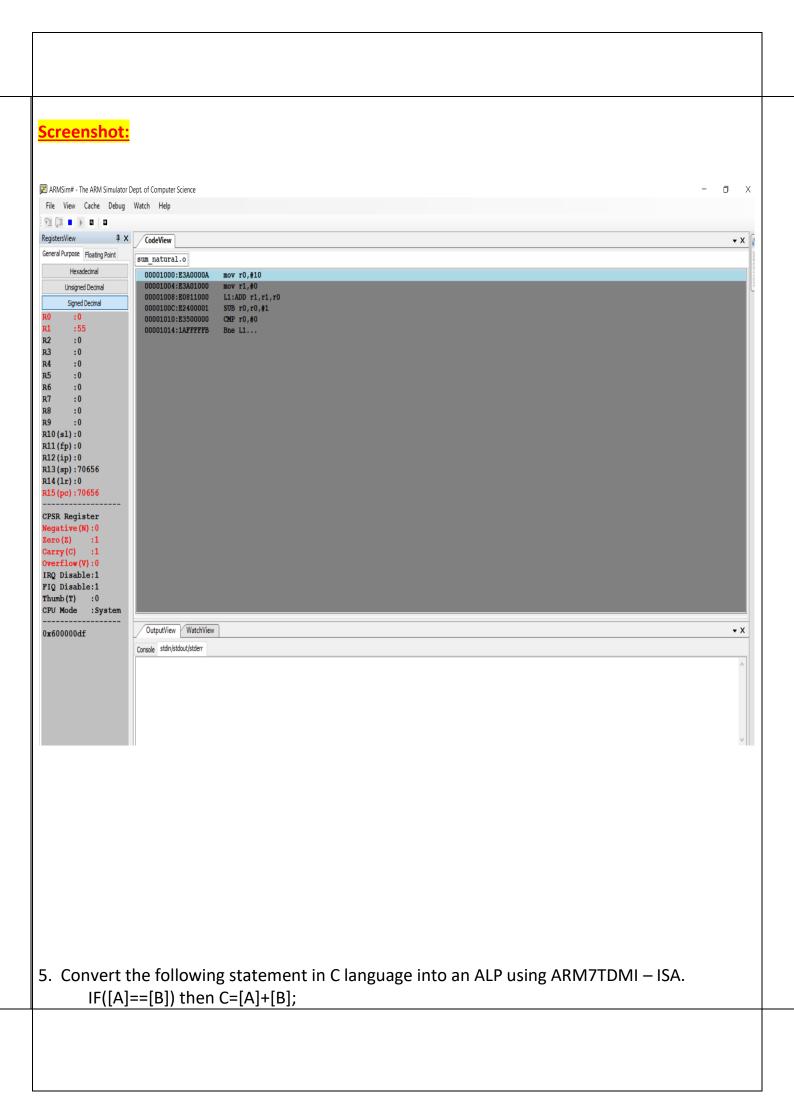
b)Using half word.



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.

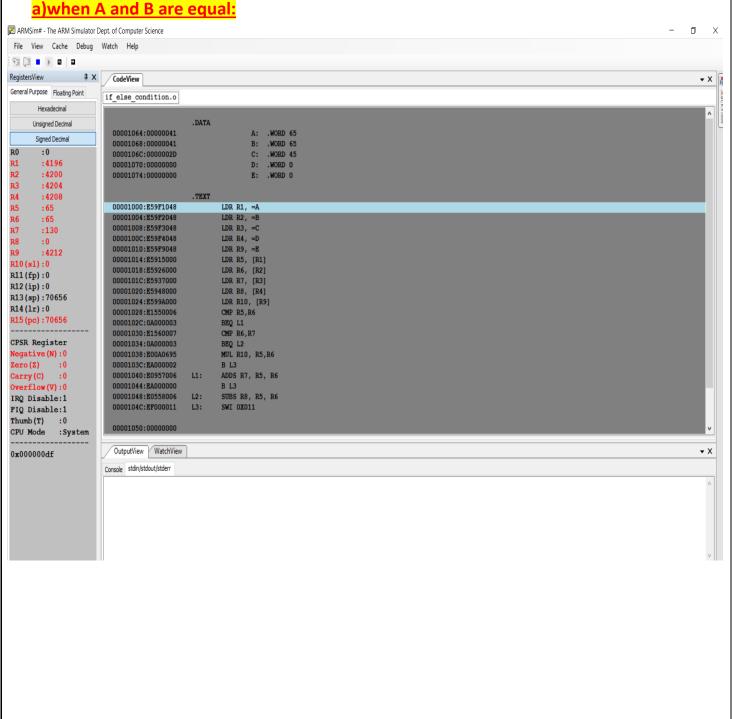


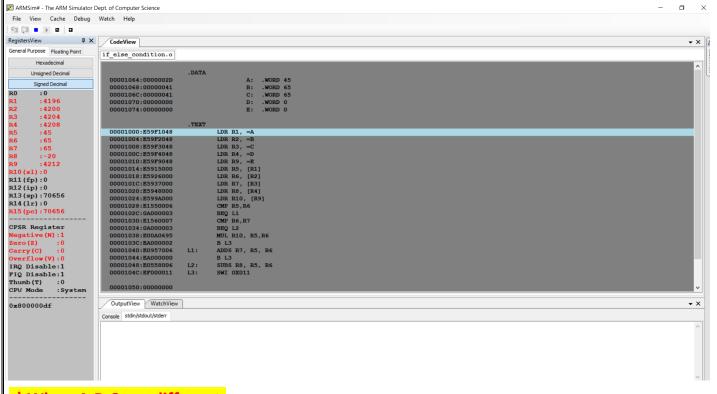
```
ELSE IF ([B]==[C]) D=[A]-[B];
ELSE E=[A]*[B]
```

Where A,B C, D & E are memory locations.

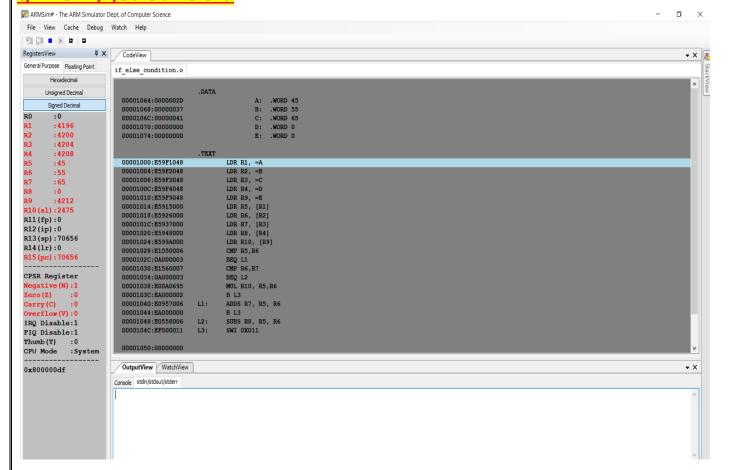
Screenshots: a)when A and B are equal:

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.

