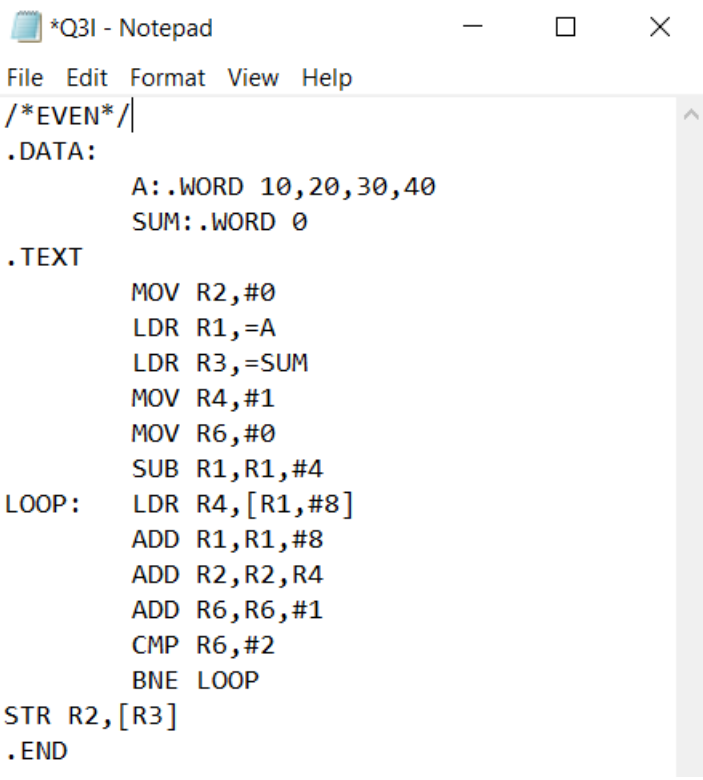


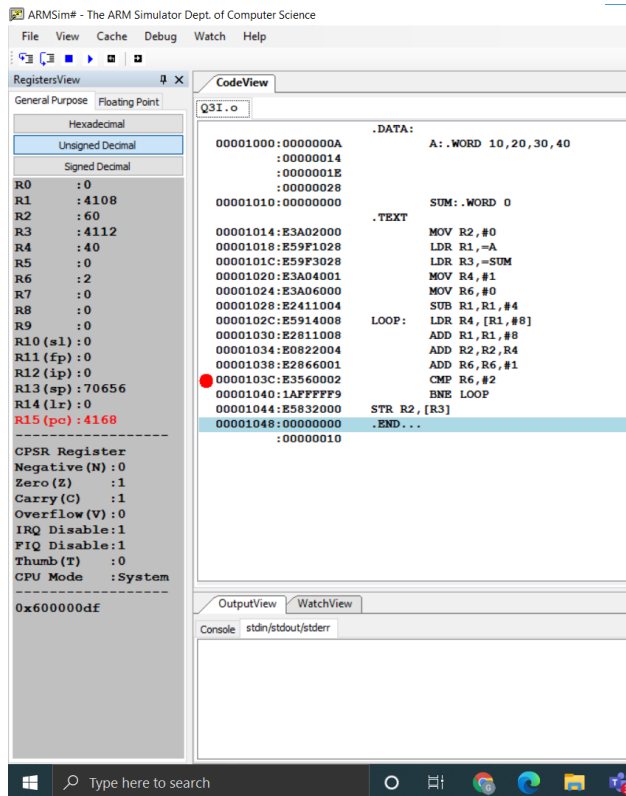


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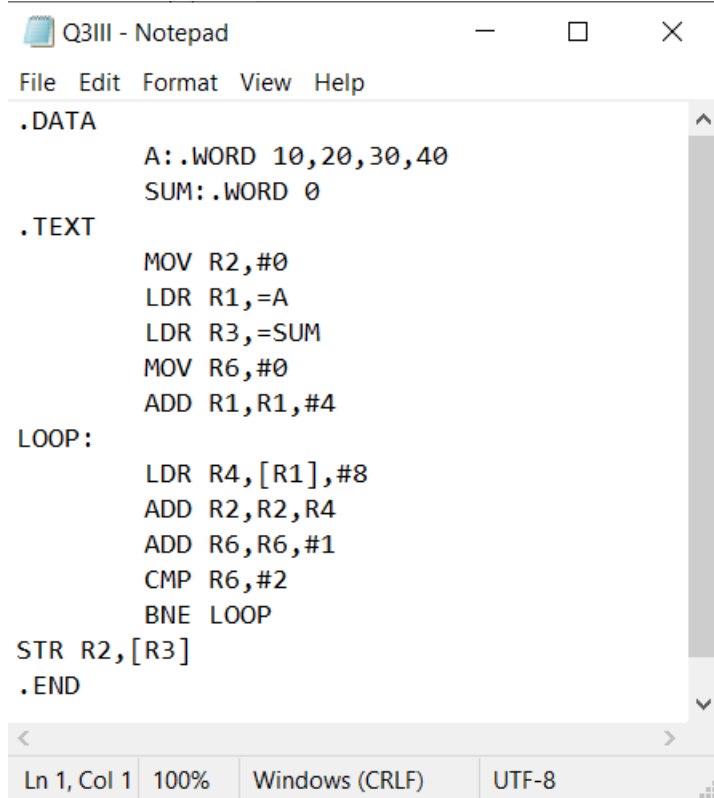
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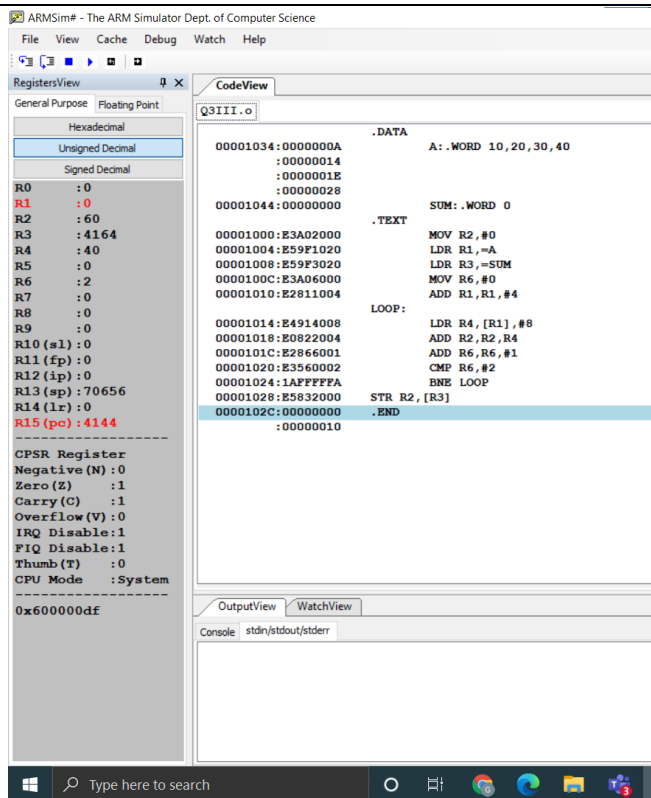
NAME: GAURAV MAHAJAN SECTION:C SRN:PES1UG20CS150
DATE:04-02-2022

Sl. No	Programs
Week cNo.3	<p>3. 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.</p> <p>a. Use Pre-indexing addressing mode</p>  <pre>*Q3I - Notepad File Edit Format View Help /*EVEN*/ .DATA: A: .WORD 10,20,30,40 SUM: .WORD 0 .TEXT MOV R2,#0 LDR R1,=A LDR R3,=SUM MOV R4,#1 MOV R6,#0 SUB R1,R1,#4 LOOP: LDR R4,[R1,#8] ADD R1,R1,#8 ADD R2,R2,R4 ADD R6,R6,#1 CMP R6,#2 BNE LOOP STR R2,[R3] .END</pre>



b. Use Post- Indexing addressing mode





c. Use Auto-indexing addressing mode

