Classwork 01 CPE-22 Instructor & Rahul Bl	1 Computer Ozzanizatien Jadani
Spring 2025, UAH	
Student's Name:	
0 What is the ,	result of
LSR	R11, R11, #5 if R11 = 10101010
	( Reme mbear we
	( Reme mber we have 32-bit word
	& ize)
Answer: 101	(3 points)
What is the or	esult of (5 points)
ASR	R12, R12, #3
i b	R12 has 0xF1216251
	( Note that we can
Answers FF242C4A	store 0xF1216251
	in R12 using MOV (we will discuss this later,
	use LDR and
	declare variable)

3 Woule an ARM Assemble porogram
to immitate the following CH code:

(12 points)
a= new int [57; Usets all values to 2000

a[2] = 32;int \*b; b = a+1; b[1] = 65;int c = a[2]+b[1];

Hint's create of a data value in ARM

Finally, write the final value of c.

Solution

LDR RD, = a

MOV R3, #D

STR R3, [R0]

STR R3, [R0, #4]

STR R3, [R0, #8]

STR R3, [R0, #12]

STR R3, [R0, #12]

STR R3, [R0, #16]

mov R3, #32

STR R3, [R0, #8]

ac2]=32

STR R3, [R0, #8]

ADD RI, RO, #4 @ b=a+1

MOV RA, #65

STR RA, CR1, #4] @ b[i]=65

LDR RS, (RD, #8) @ a[2]

LDR R6, CR1, #4] @ b[i]

ADD R7, RS, R6 @ c=a[2]+b[i]

B done

done & B done

· data
a % · word D

Answer = 65+65= 130.