(
E	Date: 11 3 25
-	
1	rox Write Assembly language program for adding first five result in the register.
_	shore the result in the register.
	AREA. SUM COLS
	ENTRY SUM, CODE, READONLY
	MOV RO, #0 ; RO = 0
	MOV RI, #1 ; RI=0
	BACKK
	ADD RO, RO, #1 : Increment RO by 1
	A.A. T.
	end of the assembly module.
	50.000.00%
+	
-	

Expe	riment No. :			
			Date:11-3-24	5
				- Interior
, b	Nrite Assembly long. numbers & store	lage Program	1.	68
	numbers & store	their som	400 aggid	diest 10 od
	2	3000000 413	ir register.	13
	HREA SUM, CO	DE, READONI	V	173
-	CIACO	0 6/4		034
1	MOV RI,#1	; R1=1		27
1	MON R2, # 9	; R2=9.0	Coroler	
1	MOV R3, #1	; R3 = 1		0.00
-	BACKK	Ovo		
	ADD R3, R3, # 2	; R3 has +	he odd number	v /13
	ADD RI, RI, RS	: RI vanta	de that was	
	5UBS RD, R2, #1			
	BNIE BACKK			ED 10 number
1	40 B GO) Cherry of	idition until	101101G
			Λ 11	
100	END 050	1 End of	Alstenbly node	Je / Se /
	846	OGGOO X HOLL		7291
		1 1 1 1 1 1 1 1 1		200

Date:.....18-3-25 grap Write ALP to compute sum of 5 terms of A.P. where that term is 3 and common difference is 7. AREA DROG, CODE, READONLY ENTRY MOV R3, 40; stores the sum MONI R2, \$10; Acts as a counter MOV RI, #3; Colculates the terms in AP BACKK ADD R3, R3, R1; add rumbers, som is in R3 ADD RI, RI, #7; Trecoment RI by 7 ADD R2, R2, H1); Facroment R2 by 1 (counter) CMP R2, #5 ; Check if R2 = 5 BNE BACKK ; Repeat of R2 note april to 5 GO B GO ; continue browning to Go ; End of Assembly Module END

Experiment No.:... 27 to White ALP to compute som of Equores of Snowbus storts from I. Wite d'use procedure SQU. Have sim en register AREA PGI, CODE, READONLY ENTRY MOV RT, # 0; RT=0, stores the sum MOV RD, #1 ; RD=1, counter LOOP BE SAU ; Brank to Link to sou ADD RT, RT, RH ; Add result stored in RY to 87 d store in RI ADD R2, R2, H1; Thrownt R2 by 1 CMP R2, +16; Check of R2=6 BNE LOOP; repeat if R2 not equal to 6 GO B GO; lastiner boarding to GO SOU MUL RU, RZ, RZ ; Multiply R2 with R2 & store in RV MON PCILR ; Mon volve of IR to PC END WO ; read of Assembly Modele

Experin	ment No. : 3 Date : 25 03 25
30.	
	ALP to odd on even numbers to retore result or in memory
	Secondaria
	AREA PROGE, CODE, READONLY
7	V RN 2 initiality N to R1
	Result to to
E	EVENT NUMBER RN 3 ; Even Number to R3
-	ENTRY
	Mov N, #5 , N=5
	MOV RESULT, #0 00; Result = 0
	MON EVEN. NUMBER, #2; Even Number = 2
	MOV R4, #10x4000000 , [R4] = 0x40000000
Le	00P 0465 (22123
	ADD RESULT, RESULT, EVEN-NUMBER:
	ADD EVEN NUMBER, EVEN_NUMBER, # 2; Even NUMBER += 2
	SUBS N, N, #1 ; NEN-14 Check N>0
	BNE LOOP ; Branch not equal than Loop
-	STR RESULT, [R4]; Store Result and address in R4
570	P B STOP
	IENID
	or no trong to make on the or the to the transfer

Sb. ALP to generate a g CyPc	and a timit a the d	vigal4 is many
location.	11. 2016	TORDIT ET MENCETY
		19
AREA DDA CODE, R	READONLY	37
	ASRI	23
	D=R2	157
NRN 3;	M = R3	89
	0	19
ENTRY	6.0	草里
Mov A, #3 ;		38
MOV 1,7#2		0
MOV N, 45	: N25	619
MOV R.S. # 0x40000000	: Address lastion.	119
100P 186= A+A	0	61.2
MUL RG, AID MO	IV AIR6; AFR6	(951 215)
STR A, TR5], #4;	Store val of A in C	RSJ, [RS] +=4
SUBS N, N, #1 ;)	N-=1 dichak it	NYO
BNE LOOP ; ;	k N<0 break	2993
	0,00	2686
STOP B STOP		
END	TOORG	correct cardons
	2.0	
	2 60 00 89	Vergeone and
47/3/25		
701		

Experiment No. :
46. Write ALP to find the arg. of ten 16 bit nois stored in
The Maria San Carlotte San Carl
AREA PROG CODE, READONIX
ENTRY READONLY
LDR RT, = TABLE; load address of Toble into RT
MOV RO, #19; RO-9, loop canter
DARH RI, TRTI ; Load the great (16-bit) value into RI from Table
BACKK
LDRH RD, [R7, #2]! load the next value from Table into R2 directement, R
ABB RI, RI, K2; Add RI &R2 and store in RI
SUBS RO, RO, FAI; Recrement loop counter RO
BNE BACKK; If RO is not zero, velocot the loop
Mov R3, #10; Set R3 to 10
MOV RH, # 0; R4=0, used to store quotient
MOV R5, R1; Capy the sun from R1 to R5
BACKKI
SUBS RS, RS, R8; Subtract 10 from R5
ADDPL RY, RY, HI; if result still too, increment RY
BPL BACKKI; Repeat until RS becomes rose
ADDA RS, RS, RS; It RS become -ur, add to back to renarda
GO B GO
TABLE DEW 1000, 2564, 8936, 344, 5667, 908, 786, 654, 9871, 456;
Data table containing to higher
Utalizes.

Date: 08/04/2025 Experiment No. :... 5a & ALP to find factorial of a number. AREA PROWIR, CODE, READONLY N RN 1; Assign register RI to variable N FACT RN 2; Assign register R2 to variable FACT ENTRY MOV N, #5; N=5 MOV FACT, #1; FACT =1 100P MUL FACT, N, FACT; FACT = FACT * N SUBS N, N, #1; N=N-1, (and sels flag) BNE LOOP; Branch to loop if N is not keep ; Infinite epop to stop execution. STOP B STOP ; end of assembly peoglam. END

	riment No. :
	Date :
(5h	, ALP to and
	. ALP to generate a fiboroce: numbers.
	ENTRY READONLY
	Mov RI, #1: R1 isitialized to 7
	LDR R3 = NUMBERS Table address located into R2
	100 MARCI: North Danded into PD
	Ro, IKO ; Byte from NonAboracci laded man P?
	RAPERS, AFT: Efore RI to table, increment 82
	R10V R3, \$10; R820
	Mov R5, #11; RS=1
	SUBS R6, R6, #12; decrement R5
1	BACKK
	ADD RY, R3, R1; Calculate next Ethoracci
	STRB RY, TR2J, #1: Stove RY to table
	Mov R3, R1; apolite R8 to prev diborocci (R1)
	MOVRI, RY: apolote RA to com, dibonaci (RU)
	ADD RS, RS, #1: increment loop conter
	CMP R5, R6; compare counter with Limit
	BLS BACKK; Brock to BACKK if control estimit
40	8 40
NUI	AFTBONACCI ACB DXDA; Lyine byte at Nonfibracci with water DXDA
	AREA NUMBER, DATA, REDWRITE; define number
TAE	BLE SPACE 60; Reserve 60 bytes for table
	END
	LIND
	1016
	4412