And the second s	2) Crenemuna Odd ha	hare		
in a secupicular li Educina	3) Generating Odd humbers Area Example, Code, Readonly			
Develope a ACP to person the device trinsfer	ENTRY		1411	
) Grenerating Series 6,10,16,20,25	MOU R4, #5		1	
Acceptang Senes only	MOV RO, #1	- N - 1 - 1 - 2		
Area Example, Code, Readonly	MON RI, #1	L+ - J		
ENTRY Mai Ri #5:	MOU R2, #1	· f	:/	
100 141 113	MOU RG, #1		V ²	
Mov RO, #1	LOOP MLA R8, RO		7 114	
Mov RI, #2	- ADO R6, R3	7 11118		
Mov R2; #3	SUBS R4, RI		£ * = =	
MOV RI, #0	BNE LOOP	-3 + -	, ,	
LOOP MLA R3, R0, R1, R2	L B L			
ADD R6, R3	END.			
SUBS R4.#1				
BUE LOOK	4) Generating factorial c	of a Dumber	1,	
L '8' L	Area, factiones	READONCY		
Superior Level Control of the Contro	START	V 1 4	.,)	
		11.11 1.4.11		
2) Generating Series 2,4,6,810		11 11 11,21		
Area Example, Code, Readonly	MAN CMP 1RO, # O		î l	
ENTRY 22 20 MINI	360 510P	d" '# 3 21	1	
MOV RO, #1	MON RIIRO		1 1	
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MEXT SUBS RO, #1	(** * ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		
MOV R2, #2	CMP RO, # 0	84 8 300	1	
1MOV R5,#1	BEQ STOP	, i	*!	
MOJ R6, #0	MUL RZ, RI, RO			
LOOP MLA R3, R0, R1, R2	MOU RI,R2		7.7.4	
ADD R6, R3	B HEXT	140 50 1 10 1		
SUBS RY, #1	6T0P			
BHE LOOP	MOP	1 1 m		
L B L	EMP.			
END		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

ALP Program to find largest number in	ON OBIG . VALUE I DED ONDOOG , BASSOCOOST, DX AAAID 258,
The rigiding to find largest that	
AREA, LNO, CODE, READONLY	OXIIIIIII OX FFFF FFFF
	AREA DATAZ, DATA, READWRITE
ENTRY	RESOLT DCD 0x0
OPG DOCO	END
MOU PO (#38H	
MOV RI, WOSH	List syntax and explain each instructions with
May 8, #00H	Jickerangle.
BACK : MON A , ORO	a) shift instructions shift instructions
CINE P. B. LOOP	a) Short instructions Shift instructions Synton: Logical Shift left by register. Rm, LSL
LOOP: JC LOOP	Egical Shift left by immediate Pm, LSL HShift in
MON BLD	baited skit lett by register Ratistles
LOCPI : INC RO-	PLE Y5=5
-DJNZ RI, BACK	77 = 8
Sjun Sjonp 4	MQV 77, 75, LSL \$2 et 77 = 75+4 (75 262)
END. I William to adv	POST 46=6
AREA AREA LARGEST, CORE, REAPONLY	~7=20 // 1
ENTRY	1888 CARRESTON OF CARROLL SAFERED SOLITORS
LOR RO, = VALUEI	b) Arithmetic instructions.
LDR. R5, [R0], #4	Syntan: Linstruction > { Lond > } { Sh Rd . Rn. N.
5085 R5, R5, H1 100 100 100 100 100 100	Exp: It implements arithmetic operations Such as
LOR 22, [80], #4	add, Sub, Mul, dive, etc Or 32 bit Signed and
Loof	Unsigned ' values.
LPR R4, [PO], #4	્લાસ 🖁 લાભાર્યોલા લાખવે 🕽 તુલ્લામાં જ્યારા છે.
CMP R2,R4	ν.) <u>Εθ</u> .
BHI LOOPI	PRE TO = 0x00000000
MOU RZ,RY	r1 = 0x 0 COO 0002
LOOPI	~2=0×00000001
5085 RE, RE, #1	SUB roirling
cmp 85, #0	POST TO = 0x 0000 0001
BNE LOOP	3 3 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
LDR R4, = RESULT	
STR, R2, [84]	

c) Logical Operators instructions e) (Omparison Instructions: Logical instructions perform bitwise logical operations on the two source registers Synton Lines ruckons & Condo? for Rd. Rn. N. Example PRE YO = 0x00000000 TIE 0x 02040608 12 = 0 ×10 90 50 70 OFF YOUTH 73 POST NO = 0x12345698. d) Multiply Instructions. Multiply instructions multiply the contents of a pair of registers and depending upon the instruction accumulate the results in with another register. The long multiplies accumulate onto a pair of registers representing a 64-bit value Syntan MLA [Lond) } (64 Rd, Rm, Ro, Rn MUL { Clandy fist, Rd, Rm, Rs. FAFE Syntax: Linstructions (Conds) \$53 RdLo, RdHi, Rm. Rs. Example PRE TO = 0x00000000

The componison instructions are used to Compare or lest a register with a 32 bit value They update the open flag bits according to the result, but don't affect Other registers KINSTRUCTIONS / CONDS RO. N Syntan: Example: PRE CPER DZCNGIFL USER Y0= 4 MA = H CMP roing POST CAST - NO NZCUQIFT USER

TIC DX 00000002 72 = Ox 000000002 MUL > 10, 11, 122 / 10= 11+12 POST TO= 0x00000004 112 0x00000002 ~2 = (X U 00000002