## **PROGRAMS**

## 1. Write an ALP to add given series of Numbers

ACCUME OF CODE DO DATA	Γ.		_
ASSUME CS:CODE, DS:DATA  DATA SEGMENT  LIST DB 01H,02H,03H,04H,05H  COUNT DB 05H  RES DW 0H  DATA ENDS	-U 0745:0000 B84407 0745:0003 BED8 0745:0005 B80000 0745:0008 BA0E0500 0745:000C BE0000 0745:000F 0204 0745:0011 46 0745:0012 FEC9 0745:0014 75F9 0745:0016 A30600 0745:0019 CC	MOV MOV MOV ADD INC DEC JNZ MOV INT	000F
	Resul	t	
CODE SEGMENT			
START:	Registers		
MOV AX, DATA	AX=000F BX=0000 CX=0000  Data Segment		
MOV DS, AX			
MOV AX,0H			
MOV CL,COUNT	-D DS:0 0744:0000 01 02 03 04 09	5 05 OF	
LEA SI,LIST	Flag Register		
GO:	NU UP EI PL ZR NA PE NC		
ADD AL,[SI]			
INC SI			
DEC CL			
JNZ GO			
MOV RES,AX			
INT 02H			
INT 03H CODE ENDS			
COME ENDS			

END START	

## 2. Write an ALP to find average of given series of Numbers

ASSUME CS:CODE, DS:DATA  DATA SEGMENT LIST DB 01H,02H,03H,04H,05H COUNT DB 05H RES DB 0H DATA ENDS	-U 0745:0000 B84407 0745:0003 8ED8 0745:0005 B80000 0745:0008 8A0E0500 0745:000C BE0000 0745:000F 0204 0745:0011 46 0745:0012 FEC9 0745:0014 75F9 0745:0016 8A0E0500 0745:001A F6F1 0745:001C A20600 0745:001F CC	MOV MOV MOV MOV ADD INC DEC JNZ MOV DIV MOV INT	AX,0744 DS,AX AX,0000 CL,[0005] SI,0000 AL,[SI] SI CL 000F CL,[0005] CL [0006],AL
CODE SEGMENT	Result		
START: MOV AX, DATA MOV DS, AX MOV AX,0H  MOV CL,COUNT LEA SI,LIST GO:	Registers   AX=0003 BX=0000 CX=0005   Data Segment		
ADD AL,[SI] INC SI DEC CL JNZ GO MOV CL,COUNT			

DIV CL	
MOV RES,AL	
INT 03H	
CODE ENDS	
END START	

# 3. Write an ALP and execute progam to find sum of squares of given series of Numbers

ASSUME CS:CODE, DS:DATA  DATA SEGMENT  LIST DB 01H,02H,03H,04H,05H  COUNT DB 05H  RES DW 0H  DATA ENDS	-U 0745:0000 B84407 0745:0003 BED8 0745:0005 B80000 0745:0008 BA0000 0745:000B BA0E0500 0745:000F BE0000 0745:0012 BF0000 0745:0015 BA04 0745:0017 BA1C 0745:0019 F6E3 0745:001B 46 0745:001C 03D0 0745:001E FEC9	MOV MOV MOV MOV MOV MOV MOV MOV MUL INC ADD DEC	SI,0000 DI,0000 AL,[SI] BL,[SI] BL SI
CODE SEGMENT START:	-U 0745:0020 75F3 0745:0022 89160600 0745:0026 CC	JNZ MOU INT	0015 [0006],DX 3
MOV AX, DATA	Result		
MOV DS, AX			
MOV AX,0H	Registers		
MOV BX,0H	AX=0019 BX=0005 CX=0000 DX=0037		
MOV DX,0H			'
	Data Segment		
MOV CL,COUNT	-D DS:0	OF OF 22	00
LEA SI,LIST	0744:0000		00
LEA DI,LIST			
	NU UP EI PL ZR NA PE NO		
GO:			
MOV AL,[SI]			
MOV BL,[SI]			
MUL BL			
INC SI			

ADD DX,AX	
DEC CL	
JNZ GO	
MOV RES,DX	
INT 03H	
CODE ENDS	
END START	

# 4. Write an ALP and execute progam to find sum of cubes of given series of Numbers

ASSUME CS:CODE, DS:DATA	I-u			
TISSENIE CS.COBE, BS.BITTI	0745:0000	B84407	MOV	AX,0744
	0745:0003		MOV	DS,AX
	0745:0005		MOV	AX,0000
DATA SEGMENT	0745:0008 0745:000B		MOU	DX,0000
LIST DB 01H,02H,03H,04H,05H	0745:000F 0745:0012	BE0000	MOV MOV MOV	CL,[0005] SI,0000 DI,0000
COUNT DB 05H	0745:0012 0745:0015 0745:0017	8A04	MOV MOV	AL,[SI] BL,[SI]
RES DW 0H	0745:0019 0745:001B	F6E3	MUL MUL	BL BL
DATA ENDS	0745:001D 0745:001E	46	INC ADD	SI DX,AX
CODE SEGMENT	-U 0745:0020		DEC	CL
START:	0745:0022 0745:0024	89160600	JNZ MOV	0015 [0006],DX
MOV AX, DATA	0745:0028		INT	3
MOV DS, AX	Result			
MOV AX,0H				
MOV BX,0H	Registers			
MOV DX,0H	AX=007D BX	X=0005 CX=0000 DX	<=00£1	
	Data Segmer	nt		
MOV CL,COUNT	-D DS:0 0744:0000 01 02 03 04 05 05 E1 00-			
LEA SI,LIST	0744:0000	01 02 03 04 05	05 E1 00	<i>y</i> -
LEA DI,LIST	Flag Register			
	NV UP EI	PL ZR NA PE NC		
GO:				
MOV AL,[SI]				
MOV BL,[SI]				
MUL BL				
MUL BL				