INDEX

	IND	EX
Sr. No.	Name of the Experiment	Page No.
1	Addition of 16 bit number	1
2	Addition of 8 bit number	2
3	mutiplication of 2, 8-bit	3
1	numbea	
4	muttiplication of 2, 18-bit	4
سد	nymber	
5	Division of 2, 8 bit number	5
6_	Division of 2,16 bit number	6
7	Loop	7
-8_	compasison	9
10	Add curry operation String Digplay	11
	Storing Digolay	12
2.0		

Experiment Name / No.: 1 Camlin /Paga No. 1 Addition of 16 Bit Numbers APM:-White a program in 8086 microprocessor to add two Algorithm:-1. Start 2. Logel a value to AX sigister 3. Load a vulue to BX orgistor 4: Add AX oxgiston with BX and stook in AX orgistes. Posegoum:ong look mov AX, 1234 H mov Bx ,567 4 ADD AX, BX HLT Rescut: The Brogorim is exceed successfully and output is verified. Teacher's Signature:

Experiment Name / No.: 2 Camlin / Page Ma 2 Addition of 8 BH Numbers Write a program to add two 8-bit numbers in 8086 microprocesson. Algorithm:-Step 1: Stoot Step 2: Load a vulue to AL exgista Step 3: Load a view to BL oxyistor Step 4: Add AL register with BL orgister and stone the value in AL origistion. Step 5 : Step. 15 Panogaram:mov AL, 12H mor BL, 34H ADD AL, BL HLT Rescurt The program is executed souccessfully and autput is vorified.

put

	Register	
Input	AL	12
7	BL	34
output	AL	46

Experiment Name / No.: 3 Camlin /Page No. MUHIPPIKATION of two 8 bit numbers two 8-bit numbers. Algorithm: Step 1: Stept Step 2: Load a value to AL oxgistor Step 3: Load a value to BL oxgistor Step 4: mutiply AL oxgistor with BL Step 5: Stop Pang num:mov AL, 03H mov BL, 04H mul BL HLT Rescut The pagarin is executed sincessfully and output is Teacher's Signatur

	Register	++	1
Input	BL BL		03
output	AL	S and	00

Registra	#	1
AX	74. F.D.	OC
BX		04
AX		03
	AX BX	AX BX

riment Name / No.: 4	Camlin Page No. 4
Muttiplication of 16-bit Number	27.5
Alm:	
unite an assembly language program	m to mutiply to
16-bit numbers	, 0
Algogi thm:-	
Step 1: steat	
Stip 2: Load a Value to AX orgistes	
step 3: Lord a Value to Bx origistice	
Step 4: muttiply Ax and Bx and Store V	rulul into AX.
Stip 5: Stop	
Pangarin: -	
mov AX, 12H	
mov BX, 343H	
mul 13x	
HLT	
20 Rescut	
The program is excerted sciencess	culy and the autput
is venified.	V
PS.	
	Teacher's Signatures

A CONTRACTOR OF THE PARTY OF TH	Reg 8 sta	H	1
Inputo	AX	1	21
Trip ood	BX	3	43
output	AX	AE	A-3
	BX	Lan Land	3

Division of two 8-bit numbers in: white a cossembly language program to bit numbers. gonithm: up 1: Steat up 2: Load a value to AL oxgistor. up 3: Load a value to BL oxgistor. up 4: Divide He with BL and Steax the value of the second	
m:- white a custombly language program to bit numbers. gostithm:- up 1: Stoat up 2: Land a value to AL orgistor up 3: Land a value to BL orgistor up 4: Divide AL with BL and Store the value og onam:-	
m:- white a custombly language program to bit numbers. gostithm:- up 1: Stoat up 2: Land a value to AL orgistor up 3: Land a value to BL orgistor up 4: Divide AL with BL and Store the value og onam:-	
white a cossembly language program to bit numbers. gonithm:— up 1: Steat up 2: Land a value to AL oxgistor. up 3: Land a value to BL oxgistor. up 4: Divide AL with BL and Stear the value oggnum:—	
white a cossembly language program to bit numbers. gonithm:— up 1: Steat up 2: Land a value to AL oxgistor. up 3: Land a value to BL oxgistor. up 4: Divide AL with BL and Stear the value oggnum:—	
gonithm:- ep 1: Stoot ep 2: Laad a value to AL exgistor ep 3: Load a value to BL exgistor ep 4: Divide AL with BL and Store the value eggnam:-	
gonithm:- ep 1: Stoot ep 2: Laad a value to AL exgistor ep 3: Load a value to BL exgistor ep 4: Divide AL with BL and Store the value eggnam:-	
ep 1: Steat ep 2: Load a value to AL oxgistor. ep 3: Load a value to BL oxgistor. ep 4: Divide AL with BL and Store the value oggams:	uuc in AL
ep 1: Steat ep 2: Load a value to AL oxgistor. ep 3: Load a value to BL oxgistor. ep 4: Divide AL with BL and Store the value oggams:	uc in AL
ep 1: Steat ep 2: Load a value to AL oxgistor. ep 3: Load a value to BL oxgistor. ep 4: Divide AL with BL and Store the value oggams:	uuc in AL
ep 2: Land a value to AL exglister. ep 3: Land a value to BL end Store the value of 4: Divide AL with BL and Store the value of 9 and 50 and	uuc in AL
og 9 a: Load a value to Bl org 15ton. of 4: Divide the with BL and Store the val	UUC in AL
oggam:-	uuc in AL
gnam:—	uuc in AL
gnam:—	
DOV AL, OCH	
DOV BL, Of H	
DIV BL	
INT 21H	
The state of the s	
gut:-	
	wiffed the
The program is executed sciencessfully and V	
t pett.	
Teacher's Signature	

- carin	Register	4	1
Input	AX BX	02	AC 04
output	PX		AB

Camlin /Page No. riment Name / No.: LOOP A9m:-White an assembly language Program to 1114strate Algorithm:-Step 1: Steat Step 2: Load AX with a value 10 Step 3: Load BX with a value Stip 4: Load ex signisted with a value which works as a Step 5: Add Ax grafta with Bx grafister and Store Yuluc at Ax exgists. step 6: Report the addition number of times, which is located in the ex negister Step 1: Stop Porgozm:mov AX, ooH mov BX, O2H mov CX,05H ABC: ADD AX BX LOOP ABC HLT

operiment Name / No.: 6 Camlin Paga No. 6 DIVISION of two 16- bit numbers Aim:-Write a assembly language program to divide 2 16hit numbers. Algerithm: -Step1: Steat Step 2: Load a VILLUE to AX orgista Step 3 : Load a value + BX gregista Step 4: divide Ax with BX and Store the value at AX. Steps: Stop. Braggram :mov AX, 02 ACH mov BX, 04# DIVBL INT 3H Resutt:-The progress is executed sculess July and the autput is Teacher's Signature:

Experiment Name / No.: 8 Camlin / Page No. 9 Compraison write as assembly language paggram to sustance compaison. plgozithm:-Step 1: Strat Step 2: Load a Value 10+0 AX orgista Step 3: Load a Vak into BX negista Step 4: comprosed vulue 151, more the value of Step 6: if the composed valle is zoro, more the value of BX origista to (X oxgistas Step 7: Stop Posogozum :-MOV AX, 1235H mov BX, 1234H IMP AX BX JO ABL mov CX, BX HLT_ ABC: MOV CX, AX Teacher's Signature:

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	Camlin Page No. 8
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Resutt:- The program is excueted successfully and Vensfiel.	of the autput is

	Register	1+	14
Input	BX BX CX	12 21 FF	34 79 FF
actput	BX	21	78
	CF flag	=1	

1 1 1 1 1 1 1

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Resut:	Camlin Paga No. 10
Kesut:- The program is exected successfully a Venified.	al the octput 15
10	
15	
20	

output

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Camlin Page No. // Experiment Name / No.: 9 Add corry operation A9m:-And (add comy) operation Algorithm:-Step1: Steat Step 2: load a value to BX oxg 15tor Step 3: Add a value to with Bx oxgister using ADD instruction Step 4: Load a value to cx origister Steps: add BX exgister with CX negister using ADC instancesion. Step 6: Stop Program:-0924 look mov BX, 1234 H ADD BX, OF45H MOY CX, OFFFF H ADC BX, CX HLT The program is excepted soucessfully and the contact is Resutt :-Venified.

aupert

	Register	++	L
4.7	AX	12	35
Input	BX	12	34
	DX	12	35
autput	BX	12	34
	CX	12	35

No.			
periment Name / No.;	11		Camlin Page No. 13
Resutt :-	ram is exce	trel scuosssfung	and output resisted
5			
10			
15			
20			

Camlin /Pago No. 12 String Display 4im:white an assembly language program to display " Halo Landou" Algorithm:-Step 1: Steat Step 2: Store "Halo longov" in viaiable hamed msg Step 4: Print using Dos intensupt using function 9 0 (Recollect function a exquires of to be loaded in orgister AH followed by cutt' to memorph Step 5: Exit to operating system once the missage has been printed, it successfully terminated the pregner by necessing to operating system Program:-JMP Stoot msy DB 'Hello landoul', '\$' START: LEA DY, MSG may AH.9 INT 214 mov AH, 4CH INIT 21 H

napat

	Register	#	L
Input	AX	12	34
	BX	56	18
attet	AX	68	AC

	Regista	+	1
input	AX BX CX	00	00
attpet	BX	00	0A 02 00