, OBSERVATION



Name: A. NITHISH Std.: Sec.:

S.No	Date	Title And Andrews	Page No.	Teach Sig Rem	n/
01	28/68	8 bit Addition 117	2-3	1-0	727
02	23/03	8 bit bubtoaction	4-5	= /	C.E.
03	23/03	8 bit multipli cooison	6	11	
04	23/03	8 bit division	7	11	-
05	23/03	16 bit Addition	8	11.	-
06	23103	16 bit "Bubtoraction	9	-	-
07	23/03	16 bit mudicipali carion	10	-	
08	23/03	16 64 division	11		
09	25/03	cogical operations	114	100	
10	25/03	Half Adder	13	5	1
()	25/03	Hoof Bubbracker	-10	PIRE	K
12	25/03	Fixe Adden	15	5	10
13	25/03	Full subtractor	t.	6	1
14	26103	con bogernous woosnes	17	81-	
15	26/03	integer Addition	40	1	
16	26/03	Integer Subtraction	3	10	*
17	26/93	Integer bivision		21	
18	26/03	integer multiplication		22	
9	26  03	Single pacision format	3	13-21	
20	26 103	Double precision format		25	1
וע	27/03	Flooting Point Addition		96	1
12	27/03	floating point subtraction		27	
13	27/03	Floating point multiplication	0	78	
24	27/03	Flooting Point Division		29	1
	27/03	Rostering division		30-3	31
	27/03	Non - Restoring Division		32	1

May 1868 at las won by ho rode a in display at

ted States, had been

pes of e racing

r than route es and levin flying at the s/sec drop

km the 0.92

508, r an ross

5.65 ver

of

S.no	Oote	Tîtûa	Poga no.	tea choù Bign
27	27/03	Booth Algorithm	33	
28	27 63	reguler Transition program	34	
р¢	27/03	single ous organisation	35	
30	27/03	multiple Bus organisation	36	
3)	28/03	Two stage pipalining	37	4
32	seles	Four Bage pipelining	38	
33	salo3	Static prediction	.39	10
34	28/03	Data Hazards	40	7 00
35-	28/03	instruction Hagoods	41	1000
36	20 03	structural Hazards	42	F31 - 45
37	28/03	super Sodas processing	43	told in the
38	28/03	Dynamic paradiction	44	THE EN
39	28/03	docimal to Headdainal	45	
40	28/03.		46-47	1

Complered 1

N'I

Edla

= 3/14=

2136

· old

20180

2012

1017

SHE

edec.

56

30

450

here H. Country with .

bear as as of some

ate with person.

Attended that proved

the relation with particular

science, in a great

and said a greate a

post on government and

RESULT

Success willy.

### AIM:

To wouth an Assembly language paragram to implement 8 bit addition using 2085 photoscon.

# ALGORITHM:

- is to the accumulation. Her all seeks that
- 2. move the data to a negliter.
- 3. Get the second data is load it into the accumulation.
- 4. Add the two register contents. as cods
- 5, chack the casey.
- 6. Stora the value of burn se carry in the namenay location.
- 7. Halt.

# PROGRAM!

LDA 8 500

MOV B.A

LDA 8501

ADD B

8TA 8502

RST I

SARVE

# AIM:

To write an assemble language program to implement 8-bit subtraction using 8085 processor. country of tracks .

# ALGORITHM :

- a many to a against 1. Start the perogram by Doading the First data is to the accumulator.
- 2. move the data to orgistes . more or
- 3. Got the second data so load it into the accumulated. settler get gettes it
- #2014 3 4. Bublinact the 2000 tragistion contents.
- \$ 5. Check for bonoow.
  - b. stone the distance to bosens in manager Location. 1005 AUS

PROGRAM

LDA 8000

MOV B, A

LOA 8001

808 B

8TA 2002

PST 1

A. D VOM

PROGRAMO

25 cook

A ASEX

309A 1900

S BOO

9001 55

1000 ATZ 1 9001

- 1 788

TOGET

H-10 0033

1+60 1088

· LUSSA

STUATOO

HOO (1058

chose we mergory out suit

BUTTER HILLSON

TO END DED DES UN

AIM!

To write an perogram to implement 8 bit multiplicate

N. D. Check Per boroad.

ALGORITHM: price potentialed tides transland

1. Stood the program.

2. move data to a register.

3: Get becord data sa Doad

lyme is set stai 4. Add two register contents.

6. In clament value is at a state and occur is

6 check: 1 book of sold brook and tool . 8

7. 8to sa the value.

8. Halt . . . subtract on the substance . . .

# PROGRAM:

LOA 8500 and a moderate of artist a

mov B, A

LOA BOOL

MOV CA

JZ LOOP

XRA A

LOOPI: ADDE

DCR C

JZ LOOP

LOOP : STA 8002

RST 1

### INPUT :

8500 06 H

8501 02H

OUTPUT!

8502 OCH

# RESULT :

thus the pergeran was executed Successfully using 8085 mi co pro (4809).

AIM:

MIA

MHT REALIN

-no dayay

MARD ORS

0000 901

A A VON

1003 901

3 803

0009 ATB

1 129

TO W

ALGO

1. 8±0

2. 1

3. (

6.

7

8.

PRI

U

m

2

ti	el:		tion.	
	-	d	tion	

AIM:

To write an assembly language to implement 8 bit division dent debuthery

ALGORITHM:

2308 graw notable tid it. 1. Stoot the program by wading a regular past.

2. move the data to a suggisters.

Photosetta

3. Got the second data a word,

4. Bubtout too orgutes contests.

5. Inchement wolve of motions brooks boos 6

serios mercipas ous bla es

6. check.

S. Check the cases. 7. Stora the value.

8. Halt. market that of author of posts . 3

PROGRAM :

LOA 8501

MOV B.A

LOA 8500

mv1 0,00

LOOP: CMPB

JC LOOP!

SUB B

INR C

3 MP LOOP

STA 8503

DCR C

mov A,C

LOOPI : STA 8502

RST I

INPUT!

8500 064

8501 OZH

OUTPUT:

8502 OSH (quotient)

8503 OOH (marrainden) using 8085 processor.

Thus the perogeram was

: MARONA9

DOOE ADJ

A.B. VOO

1008 AG2

CHOS AIS

5308 AUJ

ALS YOU

HOS BODS

BBOS ATA

3 ) O A

1214

TUGUT

PUNTUO

4 99.8

executed successibly

RESULT:HT - DOGA

HEHOGI . HEL CO. 91

Halebel . HAI cost

cocuted

to write 16 bit 8m ALGORITH 1. BA03-0 2. CORY do wad 4. Subto B. End PROGRA LHLO x CHG LHLD 3 MVI Mov SUB L STA & mov 1 BUB 1 STA 8 HLT. input 1200 120:

OUTP

100

130

: MIA

implament

STATE OF

18 1

19-1

AIM:

To write an assembly larguage program to implement 16 bit Subtraction using 8085 processor.

to the state of the state of the

NOTE of BORGO SUREN WITH IT

### ALGORITHM:

- i. Examp the program by loading a register boun.
- 2. copy the data to another pain.
- 3. Load the second number to Figure pain.
- 4. Subtract se chack the loomson.
- B. end.

# PROGRAM:

LHL0 2050

XCHG

LHLD 2052

MUI C,00

MOV A,E

SUB L

STA 2054

MOV A,D

BUB H

STA 2085

HLT.

input :

1200 084

1202 OHH

# OUTPUT:

1800 044

1301 04 4

# RESULT:

execution of 16 bit Bubt enaction is done 1480 HOSS Buccossyully. AT 102 39

arch set nederlather fix at so nedword and

SHECOSH WELL

27503

ALEGORITHMS:

· MANGOCAT

DAY (MA GROSSE)

LXI L CODOL

THE GAR SIZEA

TRATE JAL

O AND LIBATE

a Kini

TYDY ALE D A30

7.415

Thereads

DOWN

MIND ICES

H.CO 4000

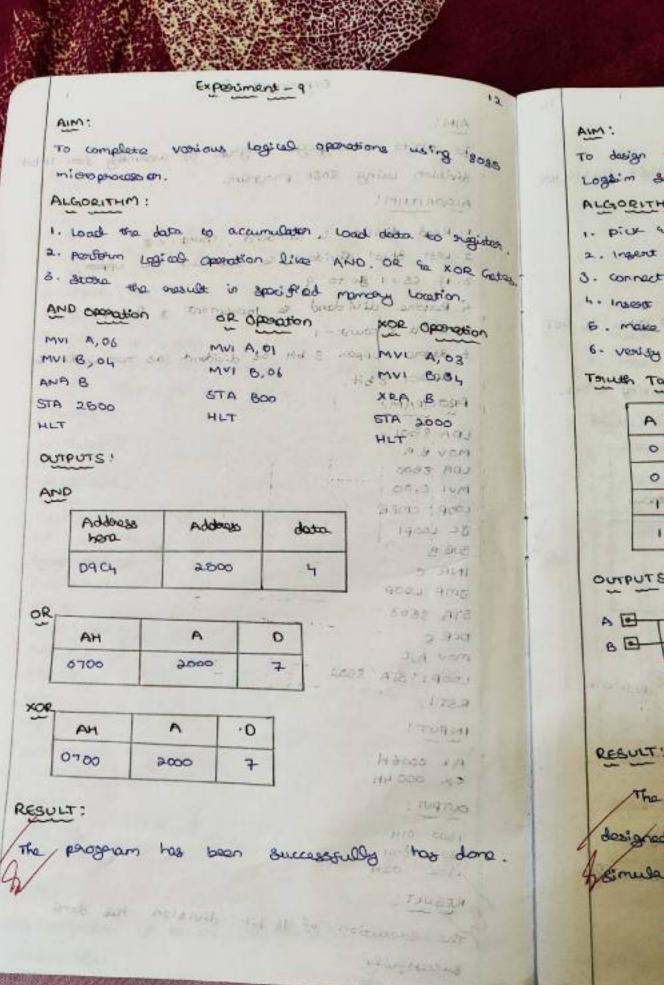
Experiment -	10
AIM!	ini.
Lamuas Lamuas	je phognam to implamen
16-bit multiplication using 800	35 peroxession.
ALGORITHM!	
the terms of the t	to Stack British
1. Load the HL poin . Move 2. Load the second pain data	
DE I Second Publication	of the HL pain mose to
3. make the MOSCOH Se LOS	to district to
4. A00 HL to SO.	. Area . cs
5. Cooy increment	1000000
6 - The move E to A postorum	on opproximan.
7. The value option is zono	3335
PROGRAM:	376.6 (166.16
	2808 GH1
SRHL	3.4 VOM
LH LD 2652	arua
x CHG	1806 (175
LXI H, DODOH	O.A. vana
L×1 L,0000L	H 842
Again DAO SP JNC START	230g arg
INX B	7:214
START : DC . D	
MOV A,E	11-80
ORA D	9941
HLT	1900 5051
INPUT:	Tu 9700
2601 04H	Has add :
8602 02H	# HO 1051
OUTPUT!	
	TJUBBA
3503 08H	Exemples of this
KESULT:	Bussey St.
he execution of 16-bit mul	explication has done
Luccessfully.	

AIM: To waite division us ALCORITHM 1. Read di 2. Lest Bhi 3. 15 CB = 4. Romona 5. count 's 6. 8d.090 lower PROGRAM LDA 8601 MOV B,A LDA &BOO MVI C, OI LOOP : CM ac roob 8 8us INR C 2Wb ro STA 85 DCR C mov A, LOOP 1: RST I INPUT AX O cx o oribri

Buco

CHECK!

DOSE



0

0

op

AD

BO

Sider races

Stage.

'8085 B

CHIA

THE PARTY

engistes.

x or Gates.

retion 3

4

7

1

ma

AMM:

To design a implement the two bit half addentising Logdin dimulation.

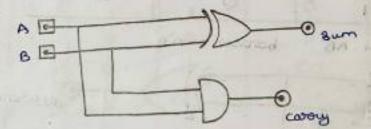
# ALGORITHM :

- 1. PICK to place the racessary gotter minutes in
- 2. Ingest 2 inputs boto Canva.
- 3. connect the inputs to XOR gates to AND gates.
- 4. Insert a outputs into convas.
- 6. make connections using the connection wises.
- 6. verisy to touth table.

# Touth Table :

A	В	s	C
0	0	0	0
0	P	2.45	0
-ope	0	21000	305
10	1	0	V

# OUTPUTS!



# RESULT!

The 2-bit half added has been successfully using togsin simulator.

Am: - and the sect of total and the section of the section To design to implement the two bit helf subtracted using apposition simulator.

# ALGORITHM:

- 1. Pick to place the noversory gates.
- 2. Ingert 2 inputs in convas.
- 3. connect the inputs to OR gate, AND gates & NOT gate.
- 4. Instart the outputs into canvas.
- s. make the connections using the connecting withes.
- 6. verily the touch table. 3 3 A

# Fruith Table

Inpu	ts	Outp	uts
Α	8	difference	Bosew
0	0	100	101
0	1	1	1
-	0	1	0
1	1	0	0

diff = A'B + AB' borrow = A'B AD Bossow 10 39.

# the man and all markles along those yet RESULT :

the 2 bit half subtractor has been done dogigned a implemented has done successfully Kising logices simulates,

AIM:

: 191A

To design Logism &

ALGORITHE

- 1. PICK
- a. insent
- 3. Connect
- 10 to 00
- 4. Insent
- S. make
- 6. vesti

Touth T

Sum

with a

(00 A) + 476

to rendly

ubtractor

EL NOT

14

SERVICES.

CONTROL OF THE

### AIM:

To design and implement two full added using legism dimulation. tengen Simulation

### ALGORITHM :

- 2. Inscrit input.
- 3. connect the input to the xor gates. AND gates to or gate, and of many sout province
- 4. Insent two outputs into the convoy.
- 5. make the connections using the connecting wises.
- 6. vesify the town table was att and

# Fruth Table :

Sum	puts dell o
-ovice	000
1	0
,	1
0	15
V	0
00	10
0	10
, 0	10
	00 1 00 0 1 1

Sum = (A 0 3) @ Cin Ovry = A-B+ (A 08)

# RESULT!

The Full adder has been designed successfully. (00 A) + 0:A

MESOLT: there the subtractor been designed to implant the

· your sound

TUTTUO

AIM'.

Start court transferred Anna specials of To design to implement the Full Buttonactor using Logism Simulation. : MERCEROS IN

### PROCEDURE:

- 14 Picts to place that customer gotte-1. pick up sa place two necessory gones.
- 2. majour 3 input into two canvos. It would be
- 3. Connect two input to two xor gates, AND se on gates. It can't during out there is
- 4. Insert 2 outputs into the convers.

  5. make the corrections tusing the converting visus.

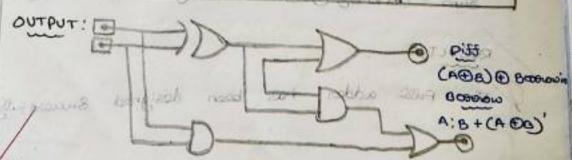
  6. Vosity the taut

10401

6. vosisy the + such.

Touth Table

go Inputs and		A Betrapho Ch		
A	В	Boston	Dist.	Всечени
0	6	0	0	0
0	0	1	1	10
0	0	0		10
0	1 1	1/	0	4 1 1
1	0'	00	1 ti	0
1	0'	10	0	0
	0	0	0	0
		1	1	1 1



# RESULT:

theree FLOD subtractor been designed to implemented 8uccess fully

AIM:

7 DEDAY

To write magues.

ALGORITHI

- 1. Start
- a. Decla
- 3. Initial
  - L. perom
- B. Ston
- 6. 8ta
- 7. Otto
- 8 . Di.
- 9. Exi

F

PROGRA

# 100

ins ma

£Doat int i

Plood

FLOOR

ind

Foon

5

```
Exposiment - IL
          16
                  AIM:
                  To write a c perogram to implament cou proviermance
Brisn capacet
                                       COM & 1993 CANS
                  measures.
                                        10170 St. 2001 5-05
                  ALGORITHM:
                 1. Start. ... The said one one of the said
                 a. Declara the necessary variables to
                 3. Initializa the cov way elements to.
                 4. parampt the uses to enter the no of parameters.
                 5. Storie the value of 10 in price of the
                 6. Stand a loop from 0 to p-1.
                 7. Others made as the first element of two can.
                 8. Display the perocesson with the langust execution
                 PROGRAM:
                 # include < atdio. h>
                                                 ( O DODATEDE
                int main ()
                 float in:
                                                   1. F097316
                that P, R;
                 Ploat cou Co); C: Rolled to on with coming
                 Float cou, ct, maa: et al alle alle alle
                ind he 1000:
                               ENE W WIND SING SH ISTON
                 for (1:10; 12:4; 1++)
                   COU CODIE O TO MOTO MATCHETT TOR COLDEN DATE HOTOS
                    letter the drew rate in green the
                   point ("In Enter the no. of perocesson: "); -
                  Scang ("1.d", & p):
                                                   : TJUBBE
                   P1 = P;
                 From (120; [LP; 1++)
                                                 using c+t.
```

7716A

while or

WILDOWN.

2-16/1/2

BU COUNTRY

Hes, AND

SLOTE IS

E. VISI

معود و

300000

0

1

0 Ö

PUS

BOSSON

AOB) @ BOOKON

B+(A OG)

planended

```
prints ("In Enter the cycles for instruction of
 processor: "); margary 2 as street or
  Scans C' 25" & ch):
                                  CAHTERDALES
 ct = 1000 + cplca;
  posints (" the cou time is " 15", ct).
  COUCIJ = ct; cololing general and a
   3 = who see you are at appoint .
  mace - crueoff and of the set of the
  for Cleo; tep; i+t) at to ander were areas it
            the estate of teap team of to print
  15 copucio co maco) - or so com trate !
  mod = cpu cis; ma manage att godgeno 3
  3 1000
                                   - +150 +
                         14. ExH the Foot am
 perint (" In the perocesses has somest execution time is
                             1.8"5.
                          CA addition who was to
 co mentere
                                   Compres this
                                   No south
 OUTPUT!
                                   . . 0 d this
 Entex the no. of powerson: 2
 Enter the cycle for instruction of proposes: -1.5
                                  The totally
enter the clock have in 843: 3
         CPU +ima: 500'000 00
Enter the yelles par instruction at perocesson 2.2
Enter the clove nate in ghz : 4 cpu time is
 . 6 man of the footoon
                      · (9 3 . 6 . 8 me)
VERULT:
                                   9 = 19
Thus the perogeran was executed successfully
                       6++1:451
using C++,
```

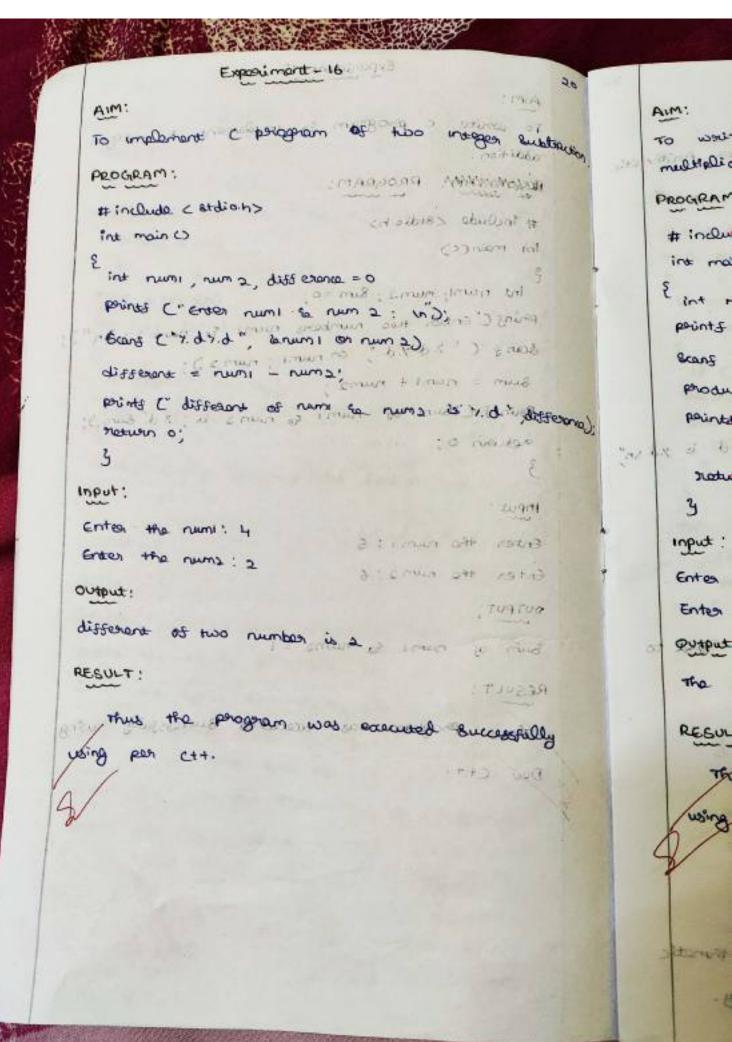
AIM: To woulte addition. **BEKALAWAYNYA** # Includ not main int ne paint C" acon & Sum: Points anthon 3 Input: Enter Enten

Sum

RESUL

Doc

```
unction of
                                                                                                                     Experiment - 15
                                                                    AIM:
12000 23
                                                                                                                                                                                                                  1.0950X
                                                                   To write a program so implement to integer
                                                                   addition.
17190 DA
                                                                                                                                                                                                   * PRABBOOK
                                                                  BIKKAMANNYAY: PROGRAM:
S018 0
                                                                                                                                                         colothies wholen it
                                                                   # include (station)
                                                                                                                                                                                               Common in
                                                                    Int main (c)
                                                                                                                            or much then o much insure the
                                                                        Int num!; numa; 8um =0;
                                                                  C. C. C come ( of temp of the come of the day of the da
                                                                   den & C " x d 7. d ; on num; num 2 );
             7
                                                               Points ("Sura of num; to num a is; x d" Sum );
                                                                   metuson 0;
3.9
                                                                  3
on time
                                                                                                                                                                                                                       $ 76 got
                                                                 input:
                                                                                                                                                                   criter the running by
100 100
                                                                Enter the num 1:5
                                                                                                                                                           £ : 20000 944 19873
                                                                Enter the num 2:6
                                                                                                                                                                                                                 LUGSUO
                                                               OUTPUT!
17
                                                               Sum of num , so numa the sout to execution
Far
                                                                                                                                                                  REEDLES CENTRAL
                                                              RESULT!
                                                               Thus program was executed successfully wing
                                                              Do C++.
                                                                                                                                                    when the day
22
```



titudion was refution a sucretal survey carried

output :

num 1: 6

AIM:

pivision .

PROGRAM:

somen o

ALGORITHM;

divisos.

3

numa: 3

Div: 2

RESULT:

To write a perogram for integer Arithmetic Division was written to executed success subly.

```
Carpentment - 19 and I report the
ALM :
                                 · (Ca) . ) ....
To waite a c perogram to implement
                                  CA MALT
praction Format.
PROGRAM:
                               CONTROL HOW
word prine binary cinen, natio Cital anima biov
# Include ( 8xdio. 5)
prises of teed to a commentation of ve b mig 3
                             prints (EEE (NOV)
 int K!
FOOI (K=1-1; K>=0; K --)
 is (nosk) on i)
 Parint ("/")
        see they superportation of they prepare
   prints ("o")
      3
                                        P. C. U.S. 3.4
type defunion &
 go floor for as as a constant of the
   Stouct
                                     - ++ D 1000
    unsigned intermantition = 28;
    unsigned int exponent = 8;
    unsigned int sign = 1
  3 -
  my Float;
  (new spoolstym) 3331 trived biety
     purt ("xd", var san, 8:80);
     component birdy (vas . every exponent 8);
     Paint C" In")
     point binary (van, now, exponent, 8);
     perint (" in");
```

22

Asithmetic .

is y.d in"

421

1113

15

.

notic

woll to

DC 17

拉 林

```
point binary (var., evovo, mantiesa, 23);
                                        : MIA
 pounts C' In");
                                                        ALM:
    transfers of transfers to missions of
                             possible report
 int main ()
                                     MASIOCHS
 my Float vos;
                           tackeds contacts
 points (" IEEE 104 supprepentation of x & 6 in", van ...);
points (the (var);
                   ( -- 4 -0 - 64 ( 1-1 - M) 1908
 setion o;
 3
                              CITE CHEEKS TO
                                ENLY D THINGS
output:
IEEE 754 suprepentation of 1259.125000 is
   0/1000/001/00111001100100000000
RESULT!
                              3 notice the safety
 Thus, the program was executed successfully wing
Dev C++.
                                    + JUNELS
                                                           3
                80 - addition tol baredone
                 3 c energies on homeiste
                 the state of the state of
                               TOO THE
          (not prolatery) 3331 toles 6104
          Cable Los car to v') triber
  (68 improspesse, more, mov) granice terring
                     Car's mine
  point breed (von now exporent toles
                         period (" 1m").
```

TO | W9 peracisio DROGRA # inc # inc void unit 6 unit 1 point-s FOX ( pounds 15 C point WORK pount int

> netw 3

Point

1 Carrie

CHARLOGES

O CHELLON

F. 6 + 3 C

(本以中州

Sulput:

10000

effoliates shallon to

#### AIM:

Ry

· Mia

OF FE

force w

411

To write a c program to implement, objuble procision Foomat. . northwelen

### PROGRAM:

# include Latdio. h>

# include catdint .ns

3 Cours aldurabs yearld addurab trived bion

unit 64 - + + por = Conint 64 - + 5 & num;

unit 64-4 masic = Nuce ce 63.

points ("Binary representation of 7 1615", num); Filescy Sum:

FON CIM 1 - 0; ic 64 ; 1+1 & mus + 1 mus

pounds C" y d" C" pron & masse of 81-00.

18 Cle + 011 1 = = 11)

prints ( ");

made >>= 1;

C'In') Faring

int main () ?

double num = 3.14159265358973238;

(Crun) pressid-slavob) thisq

setuen o:

3

Double num = 3.14159265358973238

Binosy Reprosertation.

3.141892653589793: 01000000000000000 0010000111111010101000100010101111100001000 11000

RESULT!

Thus, the c perogram was Executed Successfully using Dev c++ in double procision.

AIM:

To impos

PROGRAM

# inclu

£200£

Float

dissess

**points** 

Same

3

input:

6.8

owepu

RESU

----

100000000

2/

poles

t

Aim:

To implement c program for Booting point multiplies

choldes & shulloni to

de more our

, 2 d = 1 must 60003

TELE : E THAT YOU'L

والمحمد طال المحمدة !

PROGRAM!

# include <8xdio.h>

int main () &

120at num = 2.6;

Float num 2 = 8.2;

Place product; I s must - must a so muchtib

Product a num (\* num 2; a) we talk of ") this

pounts (" the posoduct of 7.5 to 7.5 in 7.5 in num!

numa, product ):

90than 0;

3

input:

6.3 \* 5.5

Output :

The c program was eccusion of the mit

RESULT! COOP FOR notraction , ++> vol grow

thus, the c perogeram was executed successfully using operat in multiplication using ploat point

programming.

: MIA

38

STALA.

triput:

8.8-2.3

2.8 : maxion 1

STUURSA

to imple

PROGRAM:

# include

int mais

FD cook

Float

Floor

quotient

points

Obliga +

newer

474

Input !

6.5

Outers

-iii

.............

0.

RESUL

usin

h

```
Experiment - 24
     28
                                                           29
             AIM:
                                                     20104
             To implement c program for flooring point Division.
nultipliate
             PROGRAM:
                                                  Was sour
             # include 28tdio.h>
                                               Trestano 17
             int majorch &
             Book dividend = 10-0 100 Hole good done to -1
                                               · daiffood
               Flood divisor = 3.0;
              Floor quotient is most easily all workidus a
             quatient = devidend / divisory
             points C'the quotient of 1.5 dividend by 7.5 in 1.5 in,
                         the itour , cosivib , brabivib
             netion of
          fing or good are now, average is toused and it is
        ell'Input: to found the city of a detailment and or
                     turique a potamenable of "d" set
          Output! all the can says success with ecours -3
                                               + brobly ib
              0.873001
                                               ORDGRAM!
           RESULT:
                                     ENOUNDS CENTRAL
               Thus, the c program was executed successfully
            using Dev C++, Division using floot point programming.
                                           o extrioner +
ully
                           10-1,0-KI; 18-1 tri) Ral
nt
          : completions ( ( = > matrices + ) = reb monor +
            1612
                        & Graheb - L ichnomet + ) U
                          preceives - - polymerals 4
                           (C1>>1) -1 traitoup +
```

5/19/14

challes studied !

& Chains to

COSED D

Aim!

To waite to implament a perogramming restoring poiscoteare division.

ALGIDRITHM!

1. At each exep, Dast shift the dividend by 1 position . 10-8 = mosivile though

2. Subtract the divisor from A CA-MO! 100-1

3. If the susult is positive than the step is said to be successful in this case, the quotient bit will be " to the sestosiation is not securised.

4. If the enesualt is negative, then the step is basis to be successful. In this case quotient bit, will be "o" to reasonation is magnified.

5. especit the above steps for all the bits of the dividend.

# PROGRAM!

# include <8tdio.n>
void sustane division (int divident, int divisor, int quarters)

\* quotient = 0 .

# xamainder = 0;

FOOT Cint 1-81; 1>=0; 1--) &

C: << transition | (1 >> radinance \*) = red niangre \* · 613:

/ if C\* memainder 1 = division ) 9 # remainder -= divisor; \* quotient 1 = (recid)

3 int main int

3

Staste

int (

int

poun

HERE! VAN

input!

Fil.

300000

Divide

Divis

Output

Quotio

9 somai

RESU

appe

```
31
                                    de de montre
                   3
TORKE
                3
                                                              SPHA
 CPY
                 int main c ) & manual c anima to:
stooring
                                                         THORS -1
                    int dividend = 20:
                                                          marivib
                    in divisos = 4;
ni it
                                                        _1001710050.14
                    int quotient, samaindas : restrong traitoup tri
11.50
                    prestone division (divident, divisor, le quotient, le
PA 1
                              Crabinare primary than its burners.
                    parint (" Quotient: V.d. n", quotient );
                   points C'Renaisder : x d. n'; somaisder D:
aid to be
                   nature o:
               (i) we will to get a morning
Dico po "1"
                                                 CHOIDES COULDE TO
                  of the second second of
                                              ed mers a shubit to
              input:
                                   , water my rainite growers non they
                 1-+ 1/1 (20/4/24)
9039
                                      3 Charlows , Enchards
              Dividend = 20.
                                            (Her) sommones someon and
t , was
             Divisos = 4.
                                                     a cuantited to
              - Output : - - -
                                     areas (problems terres) acres
              Quotient = 5
                                     (D) D asharomine
of the
                                     (1) bushing = Eng - bushing = wiscon
              nemainden = 0
                     CONT DOMES
                                    ( Deschives - ( Deschives action) is
              RESULT!
                                                    care (i) bear
3
                 Thus the program of nationing division is
quotient)
              executed successfully using Dev C++.
                                                              4 miles
                                            BOTH CHASE OF LIND AND
                                                             -717-2174
                             2 Soughoo
                                               Gitte a number of still
                     CHORDE TOPOLO
                     10000 2 mbruarrott
                                                           BESULT:
            Laurens prinstrus - non to nodotrarialym at suit
                                                      Buccasana
```

AIM:

To write to implament c pergenaming of non-Rosting divisors.

### ALCHORITHM'.

1. At each step, Left shift the dividend by 1 position.

2. Subtract the division from A CAO-my

3. 15 result is positive then its succentful.

4. If subject is negative than its unsuccessful

5. Repeat units the 1 to 4, foot all dividen.

# PROGRAM:

# include < 8tdion>

# include (8+sing.h)

reduction the property - non bios

CHU) redictioned - loiseed tril

to a consensed this

menese (paostal. Farmainden (1), paostal

memoinden Ci-hij

particl - eromainder Co) : divident Ci);

(i) brokists : (3) responsance (1)

Partial (1) += 2;

3 months greentians to our green with court

.

due s

67 (intj=0,j=N+1; j++) &

INPUT!

Gotos a number = 15

OUTPUT:

wierwed surcessfully using Dev can.

Quatient:00010

10000 & cobniamore

RESULT:

Thus the implementation of Non-restoring executed successfully.

paraias Ci3+2 divisor Ci3;

16 Changing-aromaingon Ci3>=5/

peortal premaisdan (13:2)

1 =+ [1+i], OD HERA

int mais co & int div cus =

81,0,1,6,1,0,13

in divisor = 20,000,000 oni

for Circ iso ; isn; itt ) &

points C'xd' questions (12);3

Prints ('x. N'); 3

metur o; 3 7 102 24

.

TO write

ALM:

# in Quede

+ susuax

ind much

int sign

write C

ine ust

A CIB

15 CI8

\* DUBL

3000

multip

ink ms

mosies

18 (84

# 5001

3

3

in .

- jubra

- Ca

000

/"

12

16

1

is successfully done.

Aim:
To worke so implament single bus organisation, in
c-programming.

peogramming:

#include (stdioh)

#include (stdioh)

Bus system-bus;

spinclude catdio.h>
type der absucté
int deta;
int address;
& Bus;

Bus + bus;

3 cpu;
Take def etaluat {
Bus + Bus
int data (100);

3 manosy; a Chemoy man, int addass )

ictuary man -> date (addraws);

yold memogy - v (memogy men, int. add, int data) & mon -> data caddaes) = data;

250: both road by upu.

REBULT!

OUTPUT!

Thus the implementation be execution of single buy

coubus bystem -bus;
managybus by dystem bus;
managybus be dystem bus;
managybus be dystem bus;
int data road = cou-operation
(20 cou, 00);
points ("oata road by cou;
3.d: data road);
3.

cou cou; where

Aronom Aronom

E CONLEM TO

in mariphone suffich product

8 3

greens

3

R

Aim:

To wonte

Bus obser

PROGRAM

Thus the implementation of read Algorithm in corporation is corporation

is implemented successfully using Dav C++.

34

- bus;

em bus;

(p1,0; b)

operation

,00° n

U CPU;

;cbag

Aim:

To write is implement the perogram or The stage propolining.

PROGRAM!

# include condions

Post mais co &

int instauction \_ count = 0;

instruction curpora-instruction;

int execution - neoult;

Fox Cint 1=0; 125; 1+1) 8

Choissuetan - enderus en trucos notsuretan &) appte . Asta

Execute - 8 tage ( & current instruction & execution regult);

genty ( cycle 2 d; Robult = 2 d in ; i+1 = execution Robul) point ( but seed to con a division of the send) there (ac. 1 Hown 2 wind of a ) noter-yo where di

GI, BOWN 8, 1924) retarge 1991 1900 - new - new

3

RESULT:

Thus the program of two stage pipelining, was implemented successfully using dev cet.

implementat successing using Dov C++.

AIM:

5000 MARC 599

300 aim 18

icus otal sua

(BANGLES WAR

Michael Moude

to point to house .

con new is many

UPD 090

(O millioners

CACHES SPACEMENT IN

To walte p: polining.

PROGRAM:

# include in main c

int inst

instanction

pipaline

for Cina fetch - &

decode - 1

encountre.

waitebo

poures C

opera

CE CAR

turi 7 700 150

3

9while

3

1 mag-2019

O (VOLTUE

CARABINA SENDING 14.

AIM:

90

9.04

ינ כח

Ctlun

Rosull)

To waite and implement C perogram of four Stage nower of transport of these of pipelining. THE RESERVE OF THE PARTY.

PROGRAM:

# include Latdions in main co &

int instruction . count = 0; master and the

instantion . cooperari \_troveus . notaweteri

pipeline register decode \_ 900, execute \_ mag;

for Un 1=0; 126 ; 1+1) \$

LONG THE CAN T Fetch-stage C& instruction-count, se waren instruction;

decodo - exage ( & current instanction , & decode 200 );

enocute stage C & decodo - sign & execute - sign );

waiteback stage (& execute \_ ang);

points C"cycle v. d; instruction opcode , v. d.

operand + = xd, operand a = xd in;

(+1, custon instanction opcode, cuarent instanction

operand, cureration operand 2);

restance in the material services and an area

3 suchlar naturetary not 404 saturd and them on C. MODERT TOWN " MODERT" O MODERT

RESULT:

has been executed successfully Thus the program using on c++. was grew great growing to manufant

AIM!

or a margin of a transfer true To waste se implement c perognam of State prediction.

PROGRAM!

Hinclude (Stdio.h) # define TAKENI to huma nominetal int

int Static production Cint instruction address) & 18 C instruction address x2==9) & and only that

3 COR E

description traverses & ) ogens - should 3 17 TAKEN: BE Should a 2 states states

3

pures (" eyele v d' materiale de loca 3 C) clam tons in mais instanction address [] = (100, 101, 104, 104, 104 &;

Mariteback stage Es parante - angelie

int num\_instructions a size of Charaction address / size of Cinamum

"PHER

CASIDIA Shubble

3 C3 THEM MIS

points (Bratic production mostors: M);

for Cita i = 0; ic num instruction; HDE

int predictions static prediction (instruction, address (i);

prediction == FAKEN 9 "TAKEN"; NOTTAKEN'S

networn o'

3

suct: Thus the program of Static prediction was implemented successfully using Dev C++.

AIM!

70 waite

production. PROGRAM:

#include c

# define TI

at define Ni

at desire st

# define si

the got

3 BP;

void Int P

3

void

16

3

BP

Poun

38

17/10

249

1 14

1600

4

103

-

ELS:

1954

3;

CCE

(inglowation

Experiment -34 100000 VIW; " the weaklest a secondary or aspen or To wonte a implement c perogram for Data Hazzands. PARODEN PROGRAM! THE STATE OF THE S of Bellet Tr stinclude 28tdio. h> OTHE ENVISES TO 3 Co diam toi and white the int a = 5 ! OTHE SHIPE IN int 6 = 10; DINGE TOO THE Int c; CORDS TON 9.4.8 The regula is "c". 2 (9 198) thi biov co atb; TUE - 51016 69 The mosult is "c" 3 (9 + 92) 53529 10 c= c+2; the street of the influence of the sale of meters o . 3 Coup, on th, 9 + 90) seedige 6 is a 30== wa\_ two st Fr care car, per state en) & 3 3625 } ( = tota = 9 ( Time = septé = 9) 2 SED WIGHT THE 1998 CARD HOL "and sreetend, it is so a notion of but dinged of the ( MATTON TO COLO O WELTON RESULT: thus the peroposan of Data Hazards is in-plemented Succession using Dev Cet implemental Successfully using bour care.

Aim:
To south
Hazonds
PROGRAM

The indu

The me

The c:
Th

9whus

3

RE

OH.

40

Parties.

345

Data

C.09

10118

SO DE

se th

の に

200

3 8

nted

Experiment - 36 101/16 Am: To waite and implement congram for Atwitting Happay . Ekimicari PROGRAM! 111/10/10/19 # include cetalio. hs edulines aborrow int moloco & ) C) numm but int a = 6; 10 00 101 int b = 10) (d) = of A(4) int c; int Flog = (0>6); to o words my A CEROS 9 S d - d - 9 not 10 (= (a10)) 3 alge 5 duner to good to Cab; Comme ( Prince : x & x & x C= C+ 2; prints ("Result: xd\n", c); 9ebeno; FUUSTA RESULT! thus the program of structura magness is

implanented successfully using Dev'C++:

Aim! to woute processing. PROGRAM: I include ine odd networn a ins sub Merceun ind m int int ina C = 0 d= printf prints

DES

nester

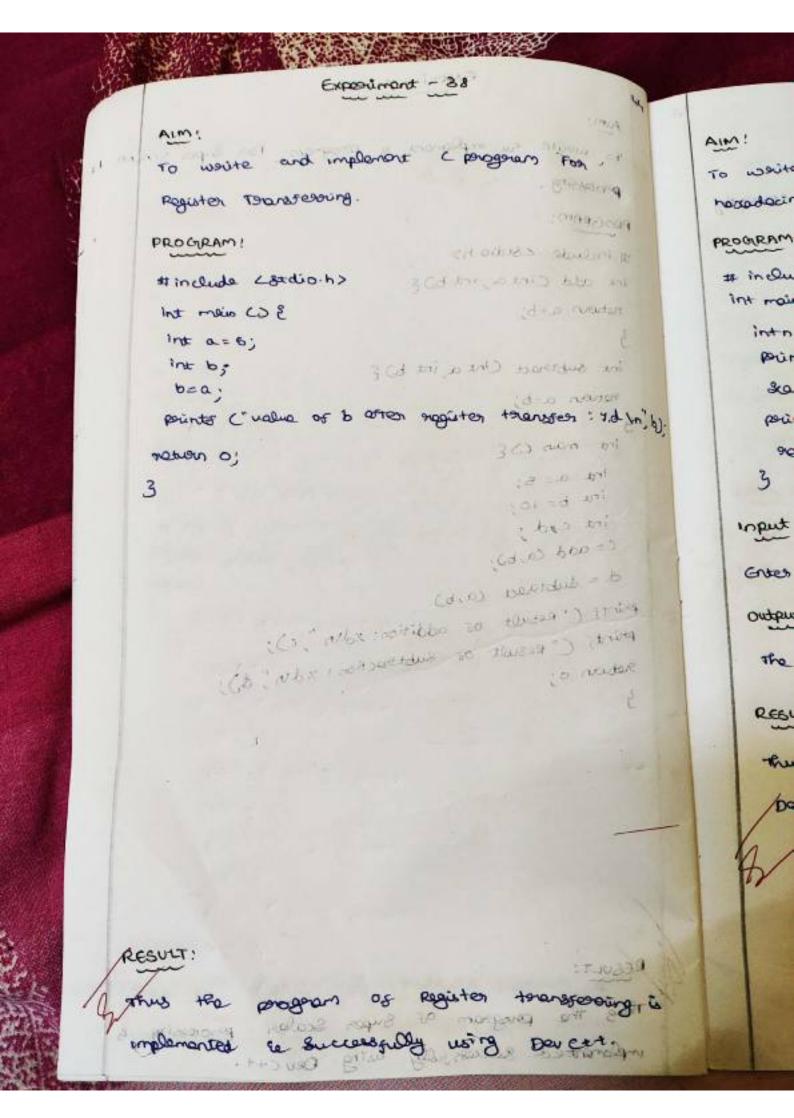
3

m

PESULT:

Thus the psuggeam of Super Scales perocessing & implanented successfully using Oeu C++.

RESULT



sm.A

Fog . "

1-500 criq

9/19/2 (PR

A STATE

bo was

andure:

HOUSE

· b

100

1.19

Litare

9,0

: 4'q /w. p.

```
Experiment -40
                                            · Stra
     AIM!
              remarked as expensed a constitution of
      to write and implement c program comentry
     octal to documel.
                              CARINTO & Devotini #
     PROGRAM!
                                    2 es aign tol
      stincoud cardio. h>
      Prot mais ()
      Prints ("course of decimes aumber ") :
       char odd num croat; (603 ( A/ 6% ) that
     Chy 100; a way amount str. ) many
      some (C. cheek and opposite centre) student
      Scans ("1.5", octal num);
      "C". soular binary values.").
      while Cottel number (comment of 13113)
                                        : tuqtilo
         Switch (cood num (s)
          case of the st culow to ben walned at
         bring (,000,) prook
                                           TJUSSE
         ( 1' )
bounds (, 001, ); person
                            Thus the people with with
          cose 1';
          print (010); brack
          (012 3;
          prints ("OII"); break
          COSE "4";
          points (100'); break;
          (axe '6';
          perunts Cioi ); bowak
```

Prin

stare!

1++ 1

PULLOR

3

3

56 Gue '6'; prints (" invalid octob digit"); stomen o; 3 1++; 1 3 13 semen o; 3 input: Green any octal number (2671), Output: (2671) = (1465)10 RESULT! Thus the perogenam written a executed successfully. completed 24 28/3/24