1. write the signed and unsigned conditional Abe

Ans: signed conditional Jumps .

JG OR JNLE : Jump if greaters

JGEONJNL Jump if greaters one equal

IL ON THEE; Jump if less

of anylyme The ow Ind Jump if less on equal object.

JE or JZ Jump if equals in

INF OU JINS ... Jump if not equal Unsigned conditional Jumps:

JA ON JNBE Jump of above

DAE OU DINB

Tones. endo fi and

DB ou DWHE: Jump if pelon and his

IBE on JWA: Tump it felow on equal

JE OU DE . Jump it equal of the druct

JUB OU DUE: Jump if not equal 2. Find the value of factorial 3 virge loop and condition statement in assembly languages.

Ans:

· model small

. Stack look

. data

a db 3

6 26 1

· rode

main proc

move ax, @data

mor ds, an

mar a, a

mor al, b

100P 6

mul .cu

dec Cl

Donz loop

mar . on, 2

now of, al

modd 1 -de, 48

ind 22h

exit in the time

ma ah, 4Ch main ends

end main: 40-176 com

men of morn

Colo, LNO

MS, NO Um

(0) (2) 660

ills fri

inoval, 10l

yes to.

arain order

Might pur

nula side this that make ow

thing that sad to matition · Dulou formation Y

3. Find the max value among (bons I som. . Stack look , data msq db 13,10 " Enter three number; of " max mg db 13,10 " Maximum number "s: " 212/20 LB & July mun 1 db? num2 d6? Jun 3 gp 5 210 21 years & day max-rum db? 201 2 month newline 26 13, 10, "\$" · code puis mà sont li groud man proc mon an, @ data = fi grouf Low to mut nov of, are e some lon mor on, 9 · lea dr, mgg ando Ligner int21h sunds ligare mor ah, 1 -. intalh integ France sub 91,10) was num 1, al m+ 21 h 7 w al, '0' mor none, al Joseph terr. Et grack

3 numbers. intalh -9ub av, (0) mou num 3, al mov al. morn 1 cmp of, num2 Jge Chock_num3 mor al, from 2 Check-num 30 comp al, mas purge som see way al, num3 : purotion now max num, al o may ahig 500 7/16 -lea of max - may int 21h mor of the your addde, (0) mor ahr 2 in+ 21 h war da, esset newline mor ah, 9 = 3 in+ 21h mov-ah, Ach int 21 h main endp end main.

1301 N 1310,

6 %

b 36 1

Jan Jan

2007 1000

of object of the section

ses els verr

no no

his in

3 9001

D. John

10 000

ani Time

mo - on, 2.

4. Show the prove with example that multiplication by left shift produce bubble value.

Anso. model small
. Stack 100 h
. data

rain proc

mar an, @ data

mov al, rum shl, al, 1

mov ah, 2h add al, '0'

mor of, al

int 21 h

main endp

we then left shift this value by one position, effective multiplying it & 2. left shift exercation effectively doubt by original value.

Date

Original numbers 1010 After left shift 10100 \$.

left shifting the binary numbers 1010 effectively doubled its value . The binary numbers 10100 trensorts decimal . 20, which is double the value 10. so , Ingereral 10ft shifting a binary number by one posation multiplies its docimal equivalent \$2.