```
.586
.MODEL FLAT
.STACK  4096            ; reserve 4096-byte stack
.DATA                   ; reserve storage for data
cmpvalue DWORD 00000004FH
.CODE                       ; start of main program code
main    PROC

    codebegin:
       mov eax, 000000038h

       cmp eax, cmpvalue
       jg jmpaddress

       cmp eax, cmpvalue
       jb jmpaddress

       mov eax,ebx
  jmpaddress:
       mov eax,0
       ret
main    ENDP

END         ; end of source code
```

cmpvalue: 00000004Fh----->79

eax:38-----> 56

CMP eax,cmpvalue

jl jmpaddress

Overflow	OV	OF
Direction	UP	
Interrupt	EI	
Sign	PL	SF
Zero	ZR	ZF
Auxiliary	AC	
Parity	PE	
Carry	CY	CF

Conditional Jumps – mnemonics/code

Instruction	Description	signed-ness	Flags	Short jump opcodes	near jump opcodes
JO	Jump if overflow		OF = 1	70	0F 80
JNO	Jump if not overflow		OF = 0	71	0F 81
JS	Jump if sign		SF = 1	78	0F 88
JNS	Jump if not sign		SF = 0	79	0F 89
JE **JZ**	Jump if equal Jump if zero		ZF = 1	74	0F 84
JNE **JNZ**	Jump if not equal Jump if not zero		ZF = 0	75	0F 85
JB **JNAE** **JC**	Jump if below Jump if not above or equal Jump if carry	unsigned	CF = 1	72	0F 82
JNB **JAE** **JNC**	Jump if not below Jump if above or equal Jump if not carry	unsigned	CF = 0	73	0F 83

Conditional Jumps - mnemonics

Instruction	Description	signed-ness	Flags	Short jump opcodes	near jump opcodes
JBE **JNA**	Jump if below or equal Jump if not above	unsigned	CF = 1 or ZF = 1	76	0F 86
JA **JNBE**	Jump if above Jump if not below or equal	unsigned	CF = 0 and ZF = 0	77	0F 87
JL **JNGE**	Jump if less Jump if not greater or equal	signed	SF <> OF	7C	0F 8C
JGE **JNL**	Jump if greater or equal Jump if not less	signed	SF = OF or ZF =1	7D	0F 8D
JLE **JNG**	Jump if less or equal Jump if not greater	signed	ZF = 1 or SF <> OF	7E	0F 8E
JG **JNLE**	Jump if greater Jump if not less or equal	signed	ZF = 0 and SF = OF	7F	0F 8F

Conditional Jumps - mnemonics

Instruction	Description	signed-ness	Flags	Short jump opcodes	near jump opcodes
JP **JPE**	Jump if parity Jump if parity even		PF = 1	7A	0F 8A
JNP **JPO**	Jump if not parity Jump if parity odd		PF = 0	7B	0F 8B
JCXZ **JECXZ**	Jump if CX register is 0 Jump if ECX register is 0		CX = 0 ECX = 0	E3	

Line# (jmp)	13	15
Complete Object Code(jmp)	7F 08	72 00
Complete Object Code(cmp/add)	3B 05 00000000	3B 05 00000000
Flag(s) Condition	ZF=0 and SF≠ OF	cf=1
Jump? (Yes/No)	no	yes

Line#	13
Complete Object Code	7F 08
Op code	7F
Object code length (in byte)	2 bytes
Type	register short