Student Name:	Roll No	Date:	
1. Write a procedure the	at replaces the number in AX by it	ts absolute value.	(5 points)
Sol:			
PROC sample			
CMP AX,0			
JL NEXT			
RET			
NEXT: NEG AX			
RET			

2. In the following instruction sequence, show the resulting value of AL where indicated, in hexadecimal: (5 Points)

```
mov al,10h

not al ; a.0EFh

mov al,31h

and al,74h ; b.30h

mov al,9Bh

or al,53h ; c.0DBh

mov al,18h

test al,81h ; d.18h

mov al,7Ah

xor al,0CDh ; e.0B7h
```

sample ENDP

3. Given that EAX = 05h, EBX = 0Ah, ECX = 0Ah, EDX = 00h, SP = 010Ah. Fill in the table. (10 Points)

main PROC		f1 PROC		f2 PROC	
0001	SHL AL, 2	000C	SHR CL, 1	0017	MUL CX
0002	PUSH EAX	000D	INC AX	0018	INC EDX
0003	PUSH EBX			0019	PUSH EDX
0004	CALL f1	000F	ROL BX,2	001A	PUSH ECX
0005	MUL CX	0010	CALL f2	001B	POP EDX
0006	POP EBX	0011	ROR AX,CL	001C	POP ECX
	main ENDP	0012	ret	001D	ret
		f1 ENDP			f2 ENDP

	IP	SP	AX	BX	CX	DX
After Instruction at 0004	000Ch	00FEh	0014h	000Ah	000Ah	0000h
After f2 completes execution	0011h	00FEh	0069h	0028h	0001h	0005h
After main completes execution		0106h	8034h	000Ah	0001h	0000h