**Assignment on  
Microprocessor and Assembly Language  
  
Assignment topic:   
Chapter 6  
Flow Control Instruction  
  
Course Code: CSE 231  
Fall-2014**

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**Date of submission: 11, December 2014**

**Ans 1:  
.model small  
.stack 100h  
.code**

**main proc**

**mov cx,0  
mov ah,2  
 mov dl,'\*'  
 mov cx,80**

**zaki:  
 int 21h  
 loop zaki**

**mov ah,4ch  
 int 21h**

**main endp  
 end main**

**Ans 2:  
  
.model small  
.stack 100h  
.data**

**msg1 db "enter the number between (1-9):$"  
msg2 db "ODD$"  
msg3 db "EVEN$"  
.code  
main proc  
 mov ax,@data  
 mov ds,ax**

**lea dx,msg1  
 mov ah,9  
 int 21h**

**mov ah,1  
 int 21h**

**sub al,30h  
 mov bl,al**

**mov ah,2  
mov dl,0dh  
 int 21h   
 mov dl,0ah  
 int 21h**

**cmp bl,1  
je odd  
cmp bl,2  
 je even  
 cmp bl,3  
 je odd  
 cmp bl,4  
 je even  
 cmp bl,5  
 je odd  
 cmp bl,6  
 je even  
 cmp bl,7  
 je odd  
 cmp bl,8  
 je even  
 cmp bl,9  
 je odd  
  
 odd:   
 lea dx,msg2  
 mov ah,9  
 int 21h   
 jmp end  
  
 even:  
 lea dx,msg3  
 mov ah,9  
 int 21h**

**end:  
 mov ah,4ch  
 int 21h**

**main endp  
end main**

**Ans 3**

**.model small  
.stack 100h  
.code**

**main proc  
mov cx,ax  
cmp bx,cx  
jl then  
jmp else  
jmp end\_if**

**then:  
mov ax,0  
jmp end\_if**

**else:  
cmp bx,cx  
jl then\_1**

**then\_1:  
mov bx,0  
jmp else\_1**

**else\_1:  
mov cx,0  
jmp end\_if**

**end\_if:   
mov ah,4ch  
int 21h**

**main endp  
end main**