פתרון עבודה בפקודות לוגיות

שאלה 5
```
  main:
mov di,1500h
mov ah,28h  ; 101000b
and ah,[di] ; check if the bits d0 and d5 =>0
cmp ah,0h
je shavem
mov ah,5h
jmp send
shavem:mov ah,45h
send: mov di,1700h
mov [di],ah
ret
```

שאלה 4
```
main:
mov di,2000h
mov ah,1h
and ah,[di] ; check if the first bit =>0
cmp ah,0h
jne end ; if the bit !=0 the program will end
mov ah,80h
and ah,[di]
cmp ah,80h
je shavem
mov ah,30h
jmp send
shavem:mov ah,40h
send: inc di
mov [di],ah
end:
ret
```

שאלה 3
```
main:
mov di,1000h
mov ah,0dfh ;11011111
and [di],ah ; the bit d5 =>0
inc di
mov ah,80h ; 10000000
or [di],ah ; d7=>1
ret
```

שאלה 2
```
main:
mov di,1000h
mov al,0feh ;11111110
and [di],al ; d0=>0
mov al,80h ; 10000000
xor [di],al ; if the bit b7 = 0 =>1  if bit b7=1 =>0
mov al,95h
cmp [di],al
jna logadol
mov al,22h
jmp send
logadol:mov al,23h
send: inc di
mov [di],al
ret
```

שאלה 1
```
main:
mov di,1000h
mov al,1h
and al,[di]
mov ah,0h
cmp ah,al
je shave
mov al,20h
mov di,40h
jmp send
shave:mov al,30h
mov di,2000h
send:mov [di],al
ret
```