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Computer Organization an Assembly Language

Question 1

Code: INCLUDE Irvine32.Inc

```
.data
readings BYTE 1, 10, 18, 24, 55, 66, 67, 68, 69, 73
threshold BYTE 70
maximumValue BYTE ?
warnmsg BYTE "caution!!: Sensor reading has exceeded threshold. Increased Value is: ", 0
.code
main PROC
mov esi, OFFSET readings
mov ecx, LENGTHOF readings
xor eax,eax
findMaximum:
mov bl, [esi]
cmp bl, al
jbe skip
mov al, bl
skip:
inc esi
loop findMaximum
mov maximumValue, al
cmp al, threshold
jbe done
mov edx, OFFSET warnmsg
call WriteString
call WriteInt
done:
exit
```

main ENDP

END main Output:

Question 2: