CS 271Computer Architecture and Assembly Language

Self-Check for Lecture#4

Solutions are posted

Solve each problem using the following data segment:

```
.data
     DWORD ?
k
     DWORD?
n
x
     DWORD ?
     DWORD?
У
     DWORD ?
     BYTE
                "Yes", 0
yes
                "No", 0
no
     BYTE
                "Maybe",0
maybe BYTE
```

Assume that variables have been initialized. Write MASM code to implement the following high-level pseudo-code decision structures.

```
1.
if (k < n)
     print (yes);
else
     print (no);
if (k < n)
     print (maybe);
else
     if (k > n)
           print(no);
     else
           print (yes);
if ((x < y) \text{ AND } (y < z))
     print (yes);
else
     print (no);
if ((x < y) OR (x > z))
     print (no);
else
     print (maybe);
```