CS 271Computer Architecture and Assembly Language

Self-Check for Lecture#5

Solutions are posted

- 1. Define a MASM constant for your name as a z-byte terminated string.
- 2. What is the size of the string in the following MASM data segment declaration?

```
.data
stones BYTE "You Can't Always Get What You Want.",10,13,0
```

3. Solve each problem using the following data segment:

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

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

```
3.1.
while (k < n) {
     print (yes);
     k += 2;
}
3.2.
do{
     print (maybe);
     k++;
while (k < n);
3.3.
for (k = 10; k > 0; k--)
     print (k);
3.4.
for (k = 10; k \le n; k++)
     print (no);
```