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Activity - Procedures

Objective

Learn to write procedures in Assembly Language.

Prerequisites

- Before doing the lab, please review the lecture.
- This lab will only work if you run the code on a Linux platform using an Intel x86 platform. The online assembler will not work due to the lack of debugging features.
- Knowledge of how to run assembly code using nasm assembler in Linux OS.

Task

Perform the following tasks:

- Generate English uppercase characters from A to Z. After every character, there must be a line feed. Use procedures and loops to optimize the code. **Do not use gdb debugger.** The executable file will run directly on the terminal. See the output below.

```
dkhan1010@kali-linux-1-vm:~$ ./run.sh test
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z
dkhan1010@kali-linux-1-vm:~$
```

What to submit?

- Draw a flowchart of your thought process. I found this [online flowchart website](#) very useful. However, you can use any application of your choice.
- What were your challenges in performing the lab (from design to the implementation phases)?
- Working and error-free code.

How to submit it?

- Upload the work in Canvas and clearly define your responses.
- Upload the code in .txt format and include comments to describe the code.
- Do not compress or zip your work.

Deadline

The deadlines are posted on the Syllabus as well as on Canvas.

Rubric

- All the questions are answered, and the working code is submitted. (Grade 100%)
- Questions are partially answered, and the code has errors or incorrect output. (Grade 50%)

Last updated: Mar 2023 by Dr. Danish Khan.