

## OS LAB Ex-2

*your own Bootloader program.*

***21BAII778***

***S Raj Abhinay***

### *Instructions*

*Implement your own bootloader program that helps a computer to boot an OS*

- 1. The code is written in a notepad file.*
- 2. Saved as .asm file*
- 3. As per instruction, run with various commands in linux cmd.*

**org 0x7C00**

**bits 16**

**start:**

**cli**

**mov si, msg**

**mov ah, 0x0E**

**.loop lodsb**

**or al, al**

**jz halt**

**int 0x10**

**jmp .loop**

**halt: hlt**

**msg: db "S Raj Abhinay 21BAII778", 0**

**;; Magic numbers**

**times 510 - (\$ - \$\$) db 0**

**dw 0xAA55**

```
boot.asm - Notepad
File Edit View

org 0x7C00
bits 16
start:
cli
mov si, msg
mov ah, 0x0E
.loop lodsb
or al, al
jz halt
int 0x10
jmp .loop
halt: hlt
msg: db "S Raj Abhinay 21BA11778", 0
;; Magic numbers
times 510 - ($ - $$) db 0
dw 0xAA55
```

```
Windows PowerShell
PS D:\code\Assembly> qemu-system-x86_64 -drive format=raw,file=os.flp

(qemu:10752): Gtk-WARNING **: 22:33:47.149: Could not load a pixbuf from icon theme.
This may indicate that pixbuf loaders or the mime database could not be found.

█
```

