

# Operating System Lab - 3

**Aadhitya Swarnesh I**



Boot-loader Program to print a name on the screen

## Code :

```
[BITS 16]
[ORG 0x7C00]
MOV SI,HelloString
CALL PrintString
JMP $
```

```
PrintCharacter:
MOV AH,0x0E
MOV BH,0x00
MOV BL,0x07
INT 0x10
RET
```

```
PrintString:
next_character:
MOV AL,[SI]
INC SI
OR AL,AL
JZ exit_function
CALL PrintCharacter
JMP next_character
exit_function:
RET
```

```
HelloString db 'Aadhitya Swarnesh',0
TIMES 510-($-$$) db 0
DW 0xAA55
```

## Terminal :

```
(base) Aadhityas-MacBook-Air:Lab aadhitya$ nasm p2.asm -f bin -o p2.bin
(base) Aadhityas-MacBook-Air:Lab aadhitya$ dd if=p2.bin bs=512 of=p2.img
1+0 records in
1+0 records out
512 bytes transferred in 0.000101 secs (5064820 bytes/sec)
(base) Aadhityas-MacBook-Air:Lab aadhitya$ █
```

**Output :**

