

# Device Drivers

## LAB2

**CED18I022**

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**Github Repo Link:** <https://github.com/Haldhardwivedi/Device-Drivers-Lab>

**Lab Exercise 2** - Write a C program to print your machine's "System Configuration". You have all liberty to decide which to add/delete in output.

### Code:

```
#include<stdio.h>
#include<stdlib.h>
#include<errno.h>
#include<sys/utsname.h>
/*
uname is a structure which maintains the following
information about the system

struct utsname {
    char sysname[];           //Operating system
name (e.g., "Linux")
    char nodename[];         //Name within "some
```

```

implementation-definednetwork"
        char release[];    //Operating system
release (e.g., "2.6.28")
        char version[];    //Operating system
version
        char machine[];    //Hardware identifier
#ifdef _GNU_SOURCE
        char domainname[]; // NIS or YP domain
name
        #endif
    };
*/

int main()
{
    struct utsname buf1;
    errno =0;
    if(uname(&buf1)!=0)
    {
        perror("uname doesn't return 0, so there is an
error");
        exit(EXIT_FAILURE);
    }
    printf("System Name = %s\n", buf1.sysname);
    printf("Node Name = %s\n", buf1.nodename);
    printf("Version = %s\n", buf1.version);
    printf("Release = %s\n", buf1.release);
    printf("Machine = %s\n", buf1.machine);
}

```

# Output

```
haldhar@haldhar: ~/Bashing
File Edit View Search Terminal Help
haldhar@haldhar:~/Bashing$ gcc sys.c
haldhar@haldhar:~/Bashing$ ./a.out
System Name = Linux
Node Name = haldhar
Version = #109~18.04.1-Ubuntu SMP Thu Jan 13 15:06:26 UTC 2022
Release = 5.4.0-96-generic
Machine = x86_64
haldhar@haldhar:~/Bashing$
```