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<sys/utsname.h> /* Header for 'uname' */

int main()
{
    struct utsname uname_pointer;
    // utsname maintains a structure that has the details of the system like
    sysname nodename, release, version, etc.

uname(&uname_pointer);

printf("System name - %s \n", uname_pointer.sysname);
    printf("Nodename - %s \n", uname_pointer.nodename);
    printf("Release - %s \n", uname_pointer.release);
    printf("Version - %s \n", uname_pointer.version);
    printf("Machine - %s \n", uname_pointer.machine);
    printf("Domain name - %s \n", uname_pointer.__domainname);
    int r=system("cat /proc/1/status"); // details of the process.
    return 0;
}
```

## **Output Screenshots:**

```
paleti@paleti-Lenovo-ideapad-330-15ICH:~/Documents/SEM_8/DD/Labs/code_files$ gcc lab2.c -o lab2
paleti@paleti-Lenovo-ideapad-330-15ICH:~/Documents/SEM_8/DD/Labs/code_files$ ./lab2
System name - Linux
              - paleti-Lenovo-ideapad-330-15ICH
- 5.11.0-46-generic
Nodename
Release
Version
               - #51~20.04.1-Ubuntu SMP Fri Jan 7 06:51:40 UTC 2022
Machine - x86_64
Domain name - (none)
Name: systemd
Umask: 0000
State: S (sleeping)
Taid: 1
Tgid:
Ngid:
Pid:
PPid:
TracerPid:
Uid: 0
Gid:
FDSize: 256
Groups:
NStgid: 1
NSpid:
NSpgid: 1
NSsid: 1
VmPeak: 233368 kB
          167892 kB
VmSize:
                  0 kB
VmLck:
VmPin:
                  0 kB
VmHWM:
             11772 kB
VmRSS:
              11772 kB
RssAnon:
                         3400 kB
                         8372 kB
RssFile:
RssShmem:
                             0 kB
             19712 kB
132 kB
760 kB
VmData:
VmStk:
VmExe:
VmLib:
               8988 kB
VmPTE:
                 92 kB
VmSwap:
                  0 kB
Huget lbPages:
                             0 kB
CoreDumping:
THP enabled:
```