Pre-Lab Theory:

SYNOPSIS

```
#include <dirent.h>

#include <dirent.h>

#include <sys/stat.h>

char *getcwd(char *buf, size_t size);

DIR *opendir(const char *dirname);

struct dirent *readdir(DIR *dirp);

int closedir(DIR *dirp);

void rewinddir(DIR *dirp);

int lstat(const char *restrict path, struct stat *restrict buf);

int stat(const char *restrict path, struct stat *restrict buf);
```

The struct stat structure, which is defined in sys/stat.h, contains at least the following

members.

```
dev_t st_dev; /* device ID of device containing file */

ino_t st_ino; /* file serial number */

mode_t st_mode; /* file mode */

nlink_t st_nlink; /* number of hard links */

uid_t st_uid; /* user ID of file */

gid_t st_gid; /* group ID of file */

off_t st_size; /* file size in bytes (regular files) */

/* path size (symbolic links) */

time_t st_atime; /* time of last access */

time_t st_mtime; /* time of last data modification */

time_t st_ctime; /* time of last file status change */
```

LAB # 11 Accessing the Contents of the Directory and Status Information

Task 1:

Write the code to Print the current working directory path to the standard output.

Output:

Task 2:

Write the program to print the list of contents in the current working directory to the standard output.

Output:

Task 3:

Create a subdirectory in the current working directory. Modify the code in Task 2 to detect that subdirectory and print against its name "It's a directory"

Output Task 3:

Task 4:

Modify task 2 to print the file status information against each file in the list.

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