

# Practical 4

Q : Write a Python program to list only directories, files and all directories, files in a specified path.

Sol :

```
import os

_path_ = input("Enter Path : ")

if _path_ :
    for folder in os.scandir(_path_) :
        if folder.is_dir() :
            print(folder.path)
else :
    _path_ = os.getcwd()
    print("Path : ",_path_)
    for folder in os.scandir(_path_) :
        if folder.is_dir() :
            print(folder.path)
```

Output :

```

program_1.py program_2.py program_3.py program_4.py
1 import os
2
3
4 if _path_ :
5     for folder in os.scandir(_path_) :
6         if folder.is_dir() :
7             print(folder.path)
8 else :
9     _path_ = os.getcwd()
10    print("Path : ",_path_)
11    for folder in os.scandir(_path_) :
12        if folder.is_dir() :
13            print(folder.path)
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[chaman@LNV9X3 ~/stg/ld_d/school/sem_4/python/prt/prt_4]$ python program_1.py
Enter Path :
Path : /home/chaman/stg/ld_d/school/sem_4/python/prt/prt_4
[chaman@LNV9X3 ~/stg/ld_d/school/sem_4/python/prt/prt_4]$ python program_1.py
Enter Path : /home/chaman/stg/ld_d/school/sem_4/python/prt/prt_4
/home/chaman/stg/ld_d/school/sem_4/python/prt/prt_4
/home/chaman/stg/ld_d/school/sem_4/python/prt/prt_1
/home/chaman/stg/ld_d/school/sem_4/python/prt/prt_3
/home/chaman/stg/ld_d/school/sem_4/python/prt/prt_2
[chaman@LNV9X3 ~/stg/ld_d/school/sem_4/python/prt/prt_4]$

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<ython/prt/prt_4/program_1.py FT: PYTHON BN: 1 7% LN: 1:1
14 lines yanked into "*"

```

0 Cryptography- 1:Python\* 2 LSS 3 DAA 4 Temp BAT 78% 30/03 04:44:39

Q : Write a Python program to scan a specified directory and identify the subdirectories and files.

Sol :

```
import os
```

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_path_ = input("Enter Path : ")

if _path_ :
    for curr,folder,file in os.walk(_path_) :
        print("Current Dir : ",curr)
        print("Folders : ",folder)
        print("Files : ",file)
else :
    _path_ = os.getcwd()
    print("Path : ",_path_)
    for curr,folder,file in os.walk(_path_) :
        print("Current Dir : ",curr)
        print("Folders : ",folder)
        print("Files : ",file)

```

Output :

```

program_1.py program_1.py program_3.py program_4.py
1 import os
2 _path_ = input("Enter Path : ")
3
4 if _path_ :
5     for folder in os.scandir(_path_) :
6         if folder.is_dir() :
7             print(folder.path)
8 else :
9     _path_ = os.getcwd()
10    print("Path : ",_path_)
11    for folder in os.scandir(_path_) :
12        if folder.is_dir() :
13            print(folder.path)
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```

    print("Created : ",datetime.fromtimestamp(os.stat(_path_).st_ctime))
    print("Last Modified : ",datetime.fromtimestamp(os.stat(_path_).st_mtime))
    print("Last Accessed : ",datetime.fromtimestamp(os.stat(_path_).st_atime))
else :
    _path_ = os.getcwd()
    print("Path : ",_path_)
    print("Mode : ",os.stat(_path_).st_mode)
    print("Owner : ",os.stat(_path_).st_dev)
    print("Created : ",datetime.fromtimestamp(os.stat(_path_).st_ctime))
    print("Last Modified : ",datetime.fromtimestamp(os.stat(_path_).st_mtime))
    print("Last Accessed : ",datetime.fromtimestamp(os.stat(_path_).st_atime))

```

Output :

```

program_1.py program_2.py program_3.py program_4.py
1 import os
2 from datetime import datetime
3 _path_ = input("Enter Path : ")
4
5 if _path_ :
6     print("Mode : ",os.stat(_path_).st_mode)
7     print("Owner : ",os.stat(_path_).st_dev)
8     print("Created : ",datetime.fromtimestamp(os.stat(_p
9     print("Last Modified : ",datetime.fromtimestamp(os.s
10    print("Last Accessed : ",datetime.fromtimestamp(os.s
11 else :
12     _path_ = os.getcwd()
13     print("Path : ",_path_)
14     print("Mode : ",os.stat(_path_).st_mode)
15     print("Owner : ",os.stat(_path_).st_dev)
16     print("Created : ",datetime.fromtimestamp(os.stat(_p
17     print("Last Modified : ",datetime.fromtimestamp(os.s
18     print("Last Accessed : ",datetime.fromtimestamp(os.s

```

```

[chaman@LNV9X3 ~/stg/ld_d/school/sem_4/python/prt/prt_4]$ python program_3.py
Enter Path :
Path : /home/chaman/stg/ld_d/school/sem_4/python/prt/prt_4
Mode : 16877
Owner : 2050
Created : 2023-03-28 11:11:22.892519
Last Modified : 2023-03-28 11:11:22.892519
Last Accessed : 2023-03-30 04:41:18.739394
[chaman@LNV9X3 ~/stg/ld_d/school/sem_4/python/prt/prt_4]$

```

python/prt/prt\_4/program\_3.py FT: PYTHON BN: 3 5% LN: 1:1  
19 lines yanked into "+

0 Cryptography- 1:Python\* 2 LSS 3 DAA 4 Temp BAT 73% 30/03 05:03:53

Q : Write a Python program to access environment variables and the value of the environment variable.

Sol :

```

import os

print("Environment Variables : ",os.environ)
print("\n\nValue of Env Variable for HOME : ",os.getenv('HOME'))

```

Output :

```

program_1.py program_2.py program_3.py program_4.py
2 import os
1
3 print("Environment Variables : ",os.environ)
1 print("\n\nValue of Env Variable for HOME : ",os.getenv('HOME'))
2

[chaman@LNV9X3 ~/stg/ld_d/school/sem_4/python/prt/prt_4]$ python program_4.py
Environment Variables : environ({'BROWSER': 'w3m', 'DBUS_SESSION_BUS_ADDRESS': 'unix:path=/run/user/1000/bus', 'DEBUGINFOD_URLS': 'https://debuginfod.archlinux.org', 'DISPLAY': ':0', 'EDITOR': 'vim', 'FZF_DEFAULT_OPTS': '--layout=reverse', 'HOME': '/home/chaman', 'INVOCATION_ID': 'c423d6e3abcf48c3afe8445a793119d9', 'KEYTIMEOUT': '1', 'LANG': 'en_IN.UTF-8', 'LC_COLLATE': 'C', 'LESSHISTFILE': '/home/chaman/.cache/less/history', 'LOGNAME': 'chaman', 'MAIL': '/var/spool/mail/chaman', 'MOTD_SHOWN': 'pam', 'OLDPWD': '/home/chaman/stg/ld_d/school/sem_4/python/prt/prt_4', 'PATH': '/home/chaman/.cargo/bin:/usr/local/sbin:/usr/local/bin:/usr/bin:/usr/sbin:/site_perl:/usr/bin/vendor_perl:/usr/bin/core_perl:/home/chaman/.local/bin', 'PWD': '/home/chaman/stg/ld_d/school/sem_4/python/prt/prt_4', 'SHELL': '/usr/bin/zsh', 'SHLVL': '2', 'SYSTEMD_EXEC_PID': '295', 'TERM': 'tmux-256color', 'TERMINAL': 'st', 'TERM_PROGRAM': 'tmux', 'TERM_PROGRAM_VERSION': '3.3a', 'TMUX': '/tmp/tmux-1000/default,618952,3', 'TMUX_PANE': '%13', 'USER': 'chaman', 'WATCH_INTERVAL': '0.1', 'WINDOWID': '29360134', 'WINDOWPATH': '1', 'XAUTHORITY': '/tmp/Xauthority', 'XDG_CACHE_DIR': '/home/chaman/.cache', 'XDG_CONFIG_DIR': '/home/chaman/.config', 'XDG_DOCUMENTS_DIR': '/home/chaman/docs', 'XDG_DOWNLOAD_DIR': '/home/chaman/dwla', 'XDG_HOME_DIR': '/home/chaman', 'XDG_RUNTIME_DIR': '/run/user/1000', 'XDG_SEAT': 'seat0', 'XDG_SESSION_CLASS': 'user', 'XDG_SESSION_ID': '1', 'XDG_SESSION_TYPE': 'tty', 'XDG_VTNR': '1', 'ZDOTDIR': '/home/chaman/.config/zsh', '_': '/usr/bin/python'})

Value of Env Variable for HOME : /home/chaman
[chaman@LNV9X3 ~/stg/ld_d/school/sem_4/python/prt/prt_4]$

<hon/prt/prt_4/program_4.py FT: PYTHON BN: 4 60% LN: 3:14
"program_4.py" 5L, 122B [w]
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BAT 73% 30/03 05:05:08

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