LAB-6: SECURE CODING

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1. **Code:**

```python
from pathlib import Path
files = Path("D:\VIT")
for f in files.iterdir():
    if f.is_file():
        print(f.name)
```

Output:

```
------------ RESTART: C:/Users/Pr
Curriculum CSE-Core Ver2.0.pdf
Lab Schedule.xlsx
My Courses.xlsx
Quiz Schedule.xlsx
Recommended Curriculum.pdf
UNDERTAKING LETTER.docx
```

2. **Code:**

```python
from pathlib import Path
direct = 'D:\VIT\Assignments'
for f in Path(direct).iterdir():
    if f.is_dir():
        print(f.name)
```

Output:

```
============ RESTART: C:/U.
Cloud Computing Project
LA Project
Semester-3
Semester-4
```

3. Code:

```python
from pathlib import Path
def listdirs(direct):
    for f in Path(direct).iterdir():
        if f.is_dir():
            print(f.name)
            listdirs(f)
direct ='C:/Users/Pramod/Downloads'
listdirs(direct)
```

Output:

```
Adobe Photoshop 2020 21.0.1.47 (x64) RePack by SanLex [Multi.Ru]
packages
AAM
IPC
ADC
Core
HDBox
IPCBox
LCC
Runtime
products
ACR
COCM
COPS
CORE
CORG
PHSP
resources
content
images
folder
LAB1
file_1
file_3
file_4
file_5
```

4. Code:

```python
from pathlib import Path
list = []
def ld(direct):
    for f in Path(direct).iterdir():
        if f.is_file():
            list.append(f.name)
        if f.is_dir():
            list.append(f.name)
            ld(f)
    return list
direct = 'C:/Users/Pramod/Downloads/LAB1'
l1 = ld(direct)
print(l1)
print("file_1" in l1)
print(len(l1))
```

Output:

```
['18BCE7293SS026.pdf', '18BCE7293SS027.pdf', '18BCE7293SS028.pdf', '18BCE7293SS0
29.pdf', '18BCE7293SS030.pdf', 'file_1', 'file_3', 'file_4', 'file_5', 'tempfile
%i.txt']
True
10
```

5. Code:

```python
from pathlib import Path
list = []
def ld(direct):
    for f in Path(direct).iterdir():
        if f.is_file():
            list.append(f.name)
        if f.is_dir():
            list.append(f.name)
            ld(f)
    return list
direct = 'C:/Users/Pramod/Downloads/LAB1'
l1 = ld(direct)
print(l1)
print("file_1" in l1)
print(len(l1))
with open('C:/Users/Pramod/Downloads/File.txt', 'w') as m:
    m.writelines(["%s\n" % item for item in l1])
```

Output:

File - Notepad

File   Edit   Format   View   Help

18BCE7293SS026.pdf
18BCE7293SS027.pdf
18BCE7293SS028.pdf
18BCE7293SS029.pdf
18BCE7293SS030.pdf
File.txt
file_1
file_3
file_4
file_5
tempfile%i.txt