Unit 4 Homework Assignment: Advanced Python Programming

Abdullahi Omar

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create_notes_drs.py

```python
# Import the os module into Python
import os

def main():

    # Create a directory called `CyberSecurity-Notes` in the current working directory
    os.mkdir('CyberSecurity-Notes')
    os.chdir('CyberSecurity-Notes')

    # Within the `CyberSecurity-Notes` directory, creates 24 sub-directories (sub-folders), called
    # `Week 1`, `Week 2`, `Week 3`, and so on until up through `Week 24`
    # Within each week directory, create 3 sub-directories, called `Day 1`, `Day 2`, and `Day 3`
    for i in range(1,4):
        os.makedirs(os.path.join('Week1', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week2', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week3', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week4', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week5', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week6', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week7', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week8', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week9', 'Day' + str(i)))
    for i in range(1,4):
```

```python
        os.makedirs(os.path.join('Week10', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week11', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week12', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week13', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week14', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week15', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week16', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week17', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week18', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week19', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week20', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week21', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week22', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week23', 'Day' + str(i)))
    for i in range(1,4):
        os.makedirs(os.path.join('Week24', 'Day' + str(i)))

    return

main()
```

copy_activities.py

```python
# Import the os and shutil module into Python
import os
import shutil
mpath = r"/Users/Abdullahi Omar/Downloads"
os.mkdir('FILES')


# Walk through all of the files contained within the directory
def stu_activities():

    # Finds files in `~/Downloads` that contain the string `Stu_`
    for roots, dirs, files in os.walk(mpath):
        roots = next(os.walk(mpath))[0]
        print('Roots = %s'% roots)
        dirs = next(os.walk(mpath))[0]
        print('Dirs = %s'% dirs)



    # Loop through all of the files in the current root
        for file in files:

            # Copies these files into the current working directory
            if file.startswith('Stu_'):
                shutil.copy(file, 'FILES')

stu_activities()
```

copy_slides.py

```python
# Import the os and shutil module into Python
import os
import shutil
spath = r"/Users/Abdullahi Omar/Downloads"
os.mkdir('Powerpoints')

def pptx_copy():

    # Walk through all of the files contained within the directory
    for roots, dirs, files in os.walk(spath):
        roots = next(os.walk(spath))[0]
        print('Roots = %s'% roots)
        dirs = next(os.walk(spath))[0]
        print('Dirs = %s'% dirs)

        # Loop through all of the files in the current root
        for file in files:

            # Copies these files into the current working directory
            if file.endswith('.pptx'):
                shutil.copy(file, 'Powerpoints')
            elif file.endswith('.ppt'):
                shutil.copy(file, 'Powerpoints')

pptx_copy()
```