Package Assignments

July 23, 2021

```python
[1]: import os
     from pathlib import Path
     import zipfile
     import shutil

     first_name = 'Nicole' # Put your first name here
     last_name = 'Aguilera' # Put your last name here

     first_name = first_name.replace(' ', '-') # Replace spaces with -
     last_name = last_name.replace(' ', '-') # Replace spaces with -

     current_dir = Path(os.getcwd()).absolute()
     completed_dir = current_dir.joinpath('completed')
     completed_dir.mkdir(parents=True, exist_ok=True)

     def zipit(path, archname):
         archive = zipfile.ZipFile(archname, "w", zipfile.ZIP_DEFLATED)
         if os.path.isdir(path):
             _zippy(path, path, archive)
         else:
             _, name = os.path.split(path)
             archive.write(path, name)
         archive.close()

     def _zippy(base_path, path, archive):
         paths = os.listdir(path)
         for p in paths:
             p = os.path.join(path, p)
             if os.path.isdir(p):
                 _zippy(base_path, p, archive)
             else:
                 archive.write(p, os.path.relpath(p, base_path))

     def compress_assignment_dir(assignment_dir):
         assignment_name = assignment_dir.name
         zip_file_name = '{}_{}{}.zip'.format(
             assignment_name,
```

```
        last_name,
        first_name
    )
    zip_file_path = completed_dir.joinpath(zip_file_name)
    zipit(assignment_dir, zip_file_path)
#     zip_file_path = completed_dir.joinpath(zip_file_name)
#     shutil.make_archive(zip_file_path, 'zip', assignment_dir)
```

0.1 Create Archive for Single Assignment

Overwrites existing output if exists

[2]:
```
current_assignment_num = 2
current_assignment_dir = current_dir.joinpath('assignment{:02d}'.
 →format(current_assignment_num))
compress_assignment_dir(current_assignment_dir)
```

0.2 Create Archives for All Assignments

[3]:
```
assignment_dirs = sorted([
    Path(entry.path)
    for entry in os.scandir(current_dir)
    if entry.is_dir() and entry.name.startswith('assignment06')
])


for assignment_dir in assignment_dirs:
    compress_assignment_dir(assignment_dir)
```

[ ]: