

OPEN EDITORS

percipio81_creating_zipped_backups...

PYTHON

▸ 04_Modules-Functions

▸ 05_Classes

▸ 06_Working-with-Files

▸ 07_Comprehensions

▸ 08_Iterables-and-Generators

▸ 09_Exceptions

▸ 10_Automation Programming

percipio68_identifying_how_to_use_p...

percipio69_installing_python.py

percipio70_managing_packages_wit...

percipio71_using_variables_and_ope...

percipio72_working_with_functions...

percipio73_using_lists_tuples_and_di...

percipio74_creating_and_running_a...

percipio75_performing_file_input_an...

percipio76_manipulating_csv_files.py

percipio77_processing_json_files.py

percipio78_parsing_xml_files.py

percipio79_retrieving_data_from_a_w...

percipio80_managing_cron_jobs_wit...

percipio81_creating_zipped_backups...

percipio82_exercise_using_python_fo...

▸ Python Projects_2014

≡ CMD_Python_Set-Path.txt

excel_code_.py

≡ excel_code_summary_master

excel_code_summary_master - Copy.py

excel_code_summary_master.py

python_all_objects_and_subclasses.py

≡ Python_Clear-Window-Command.txt

python_debug_logging_code.py

python_exercises_00.py

python_exercises_01.py

Python_Tutorial_Running-Scripts.docx

Python_Tutorials.md

≡ Scripts - Shortcut.lnk

start_code_for_python_master.py

percipio81_creating_zipped_backups_with_python.py

```

1  #!/usr/bin/env python3
2  '''
3  percipio81_creating_zipped_backups_with_python.py
4  Percipio video: Automation Programming; Creating Zipped Backups with Python
5
6  * Creating zip-backup files with Python
7  * ATTN: CHANGE ONLY THE FOLDER PATH IN THE LAST LINE WHEN CALLING THE FUNCTION, backup_zip
8    ().
9  * Don't forget to double-backslash to escape the backslash
10  * Then when run, this script should backup that folder.
11
12  * There are two types of paths: absolute and relative paths.
13    *An absolute path always contains the root elements and the complete list of
14    directories to locate the specific file or folder. All the information
15    required to locate the file or folder is available in the absolute path.
16    * A relative path is a way to specify the location of a directory relative to
17    another directory.
18
19  * HELP: .zip file is ending up in the Python-program root directory, not the folder
20    currently being backed up.
21  '''
22  nl = '\n'
23
24  # Two modules necessary to backup and zip folders and files
25  import os #
26  import zipfile #
27
28  # This function backs up an entire folder to a .zip file
29  def backup_zip(folder): # defining a function
30      folder = os.path.abspath(folder) # use absolute path
31
32      # Determine the filename to backup to
33      ver = 1 # setting version to 1
34      while True: # while loop will continue until code finds a version of the .zip file
35          that does not exist
36          zip_filename = os.path.basename(folder) + '_' + str(ver) + '.zip'
37          if not os.path.exists(zip_filename):
38              break
39          ver += 1

```




EXPLORER

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```
34
35 # Creating the .zip file
36 print(nl, 'Archiving %s...' % (zip_filename)) #
37 backup_zip_file = zipfile.ZipFile(zip_filename, 'w') # code that creates the .zip
    file
38
39 # Most of the heavy-lifting of this script
40 # Walk the folder tree in its entirety to compress all files in subfolders as well
41 # During each iteration of the forLoop os.walk returns the current folder name,
42 # subfolders in that folder, as well as the filenames within that folder
43 for foldername, subfolders, filenames in os.walk(folder): # using os module.walk to
    walk a folder tree in its entirety, to compress all files. During each iteration
    of the forLoop, os.walk returns the current folder name, all subfolders, & all
    filenames
44     print(nl, 'Adding files in the %s...' % (foldername))
45     backup_zip_file.write(foldername) # write the folder name
46     for filename in filenames: # enter another forLoop checking for specific filenames
47         new_base = os.path.basename(folder) + '_' # determine any existing .zip files
            within the directory to avoid zipping existing .zip files
48         if filename.startswith(new_base) and filename.endswith('.zip'): #
49             continue # so as not to back up existing .zip files
50         backup_zip_file.write(os.path.join(foldername, filename)) # write to the
            backup file using os.path.join on the folder name and file name
51 backup_zip_file.close() # close the backup .zip file
52 print(nl, 'Archiving Complete. {} created successfully.'.format(zip_filename)) #
    success message
53
54 backup_zip('C:\\_myScripts') # calling the function with the absolute folder path. Don't
    forget to double-backslash to escape the backslash
55 '''
56 RESULT (using an example folder):
57 Archiving _myScripts_1.zip...
58 Adding files in the C:\\_myScripts...
59 Adding files in the C:\\_myScripts\\tests...
60 Adding files in the C:\\_myScripts\\text-writing-files...
61 Adding files in the C:\\_myScripts\\text-writing-files\\excel files...
62 Archiving Complete. _myScripts_1.zip created successfully.
63 '''
```