

Report for internship task 3:

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GitHub link: <https://github.com/Saad-Bin-Haroon/internship-task-3.git>

Task Objective:

The objective of this task is for how to used different topic like How to push on a github your projects and different other like cmd power shells etc:

Code Snippets:

```
# Merge the contents of two files into a new file called merged.txt
```

```
# Open first file in read mode with
open("file1.txt", "r") as file1:
    content1 = file1.read()
```

```
# Open second file in read mode
with open("file2.txt", "r") as file2:
    content2 = file2.read()
```

```
# Merge and write into merged.txt with
open("merged.txt", "w") as merged_file:
```

```
merged_file.write(content1 + "\n" + content2)
print("Files merged successfully into merged.txt")
2. print(f"Lines: {len(lines)}") # Count lines, words, and characters from
merged.txt
```

with open("merged.txt", "r") as merged_file:

```
data = merged_file.read()
```

```
# Counting
```

```
lines = data.split("\n")           # Splitting by newline words
= data.split()                   # Splitting by spaces characters =
len(data)                      # Total characters
```

```
print(f"Words: {len(words)}")
```

```
print(f"Characters: {characters}")
```

3.

```
import os # OS module for interacting with the file system
```

```
# List all files in the current directory files
```

```
= os.listdir()
```

```
# Filter only .py files and print their name & size for
```

```
file in files:
```

```

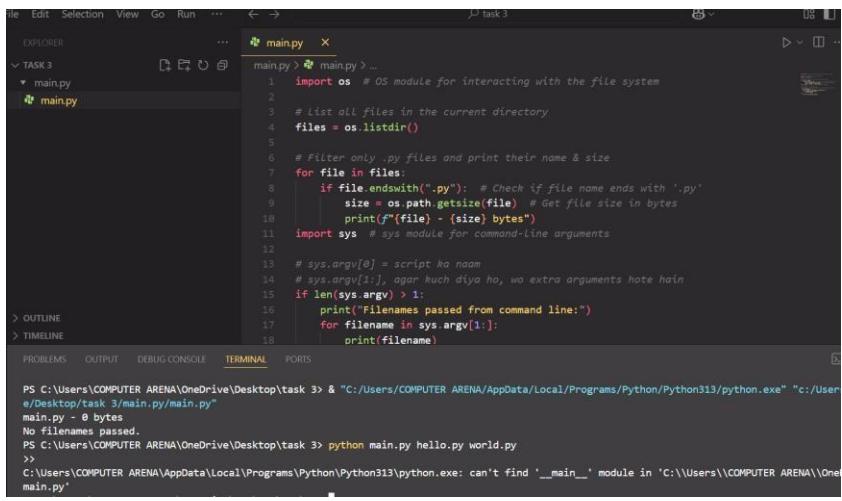
if file.endswith(".py"): # Check if file name ends with '.py'

size = os.path.getsize(file) # Get file size in bytes

print(f'{file} - {size} bytes') import sys # sys module for
command-line arguments

```

screenshots:



The screenshot shows a code editor interface with a dark theme. The top menu bar includes File, Edit, Selection, View, Go, Run, etc. Below the menu is a toolbar with icons for file operations. The left sidebar has sections for EXPLORER, TASK 3, and OUTLINE, with 'main.py' listed under TASK 3. The main workspace shows the following Python script:

```

main.py > main.py > ...
1 import os # OS module for interacting with the file system
2
3 # list all files in the current directory
4 files = os.listdir()
5
6 # Filter only .py files and print their name & size
7 for file in files:
8     if file.endswith(".py"): # Check if file name ends with '.py'
9         size = os.path.getsize(file) # Get file size in bytes
10        print(f'{file} - {size} bytes')
11
12 import sys # sys module for command-line arguments
13
14 # sys.argv[0] = script ka naam
15 # sys.argv[1:], agar kuch diya ho, wo extra arguments hote hain
16 if len(sys.argv) > 1:
17     print("Filenames passed from command line:")
18     for filename in sys.argv[1:]:
19         print(filename)

```

Below the code editor is a terminal window showing command-line interactions:

```

PS C:\Users\COMPUTER ARENA\OneDrive\Desktop\task 3> & "C:/Users/COMPUTER ARENA/AppData/Local/Programs/Python/Python313/python.exe" "c:/Users/e/Desktop/task 3/main.py/main.py"
main.py - 0 bytes
No filenames passed.
PS C:\Users\COMPUTER ARENA\OneDrive\Desktop\task 3> python main.py hello.py world.py
>>
C:\Users\COMPUTER ARENA\AppData\Local\Programs\Python\Python313\python.exe: can't find '__main__' module in 'C:\\Users\\COMPUTER ARENA\\One
main.py'

```

The screenshot shows a Windows PowerShell ISE window. The main pane displays a command history:

```
PS C:\Users\COMPUTER ARENA> cd Desktop
PS C:\Users\COMPUTER ARENA> mkdir task4
PS C:\Users\COMPUTER ARENA>
PS C:\Users\COMPUTER ARENA> cd task4
PS C:\Users\COMPUTER ARENA\Desktop>
PS C:\Users\COMPUTER ARENA\Desktop> Directory: C:\Users\COMPUTER ARENA\Desktop
Mode LastWriteTime      Length Name
---- -----          ----- 
d----- 8/11/2025 11:37 PM       task4
PS C:\Users\COMPUTER ARENA\Desktop> python -m venv myenv
PS C:\Users\COMPUTER ARENA\Desktop> .\myenv\Scripts\Activate.ps1
.\myenv\Scripts\Activate.ps1 : File C:\Users\COMPUTER ARENA\Desktop\task4\myenv\Scripts\Activate.ps1 cannot
be loaded because running scripts is disabled on this system. For more information, see
about_Execution_Policies at https://go.microsoft.com/fwlink/?LinkId=135170.
At line:1 char:1
+ .\myenv\Scripts\Activate.ps1
+ ~~~~~~
+ CategoryInfo          : SecurityError: () [], PSSecurityException
+ FullyQualifiedErrorId : UnauthorizedAccess
PS C:\Users\COMPUTER ARENA\Desktop>
```

To the right of the main pane is a "Commands" sidebar with a search interface:

- Modules: All
- Name:

The sidebar lists many PowerShell cmdlets starting with "Add-App":

- Add-AppProvisionedSharedPackageContent
- Add-AppSharedPackageContainer
- Add-AppClientConnectionGroup
- Add-AppClientPackage
- Add-AppvPublishingServer
- Add-AppxPackage
- Add-AppxProvisionedPackage
- Add-AppxVolume
- Add-BCDataCacheExtension
- Add-BitLockerKeyProtector
- Add-BitsFile
- Add-CertificateEnrollmentPolicyServer
- Add-Computer
- Add-Content
- Add-DnsClientDohServerAddress

At the bottom right of the window are "Run" and "Ins" buttons.

```
▶ Windows PowerShell

PS C:\Users\User> python -m venv myenv
PS C:\Users\User> .\myenv\Scripts\Activate
(myenv) PS C:\Users\User> pip install requests pandas
Collecting requests
  Using cached requests-2.28.2-py3-none-any.whl (62 kB)
Collecting pandas
  Collecting urlib3<3,>=1.21.1
    Collecting charset-normalizer4.=2
      Using cached urlib3-1.26.16-py3-none-any.whl (143 kB)
      Using cached charset_normalizerf-2.0.12-py3-none-any.whl(39 B)
    Installing collected packages: urlib, charset-normalizer, requests, pandas
      Successfully installed charset-normalizer-2.0.12 pandas-2.0.3 requests-2.28.2
      urlib3-1.26.16
(myenv) PS C:\Users\User> pip list
Package           Version
charset-normalizer    2.0.12
pandas              2.0.3
pip                 23.0.1
requests             2.28.2
urllib3             1.26.16
```

```
task 6.py
main.py > task 6.py > ...
1 # Task 6: Factorial calculation using recursion
2
3 # Function define kar rahe hain jo factorial nikalta hai
4 def factorial(n):
5     """
6         Ye function recursion ka use karke factorial calculate karta hai.
7         Example:
8         factorial(3) = 3 * factorial(2)
9         factorial(2) = 2 * factorial(1)
10        factorial(1) = 1
11        """
12        # Base case: agar n 1 ya 0 ho, to factorial 1 hota hai
13        if n == 0 or n == 1:
14            return 1
15        else:
16            # Recursive case: n ko factorial(n-1) se multiply karo
17            return n * factorial(n - 1)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\COMPUTER ARENA\OneDrive\Desktop\task 3> git init
>> git branch -M main
>> git add .
>> git commit -m "Task 6 factorial code with comments"
>> git remote add origin https://github.com/Saad-Bin-Haroon/my-notes.git
>> git push -u origin main
>>
Reinitialized existing Git repository in C:/Users/COMPUTER ARENA/OneDrive/Desktop/task 3/.git/
[main e5fee1] Task 6 factorial code with comments
 2 files changed, 44 insertions(+)
```

Reflections:

In this task I learn about how to upload your project on github and push it from the vs code and I recently know about the power shell and cmd and git bash.

Dictionary is like list but with key and value. I use dictionary to store data like name and age. At first I do mistake like I try to access with number, but then I remember need to use key. I also learn how to add new item in dictionary and how to delete.

Sometime I get confuse with syntax and spelling mistake, but I fix it after try many time. This task help me understand more better how to use modul and dictionary. I feel more good with Python now.

 End of Report: