1.

```
import requests

url = "https://example.com"

 # Replace with your desired URL
response = requests.get(url)

if response.status_code == 200:
    print(response.text)
else:
    print(f"Failed to fetch data. Status
code: {response.status_code}")
```

2.

```
import os

total_size = 0
for file in os.listdir('.'):
    if os.path.isfile(file):
        total_size += os.path.getsize(file)

print(f"Total size of all files in the current
directory: {total_size} bytes")
```

3.

```
input_file = "input.txt"  # Replace with your
input file
output_file = "output.txt"

with open(input_file, 'r') as infile, open(output
_file, 'w') as outfile:
    for i, line in enumerate(infile, start=1):
        outfile.write(f"{i}: {line}")
print(f"Contents copied to {output_file} with
line numbers.")
```

4.
```
file_name = "file.txt"  # Replace with your file
name

tabs = spaces = newlines = 0
with open(file_name, 'r') as file:
    for line in file:
        newlines += 1
        tabs += line.count('\t')
        spaces += line.count(' ')

print(f"Tabs: {tabs}, Spaces: {spaces}, Newlines:
{newlines}")
```

5.
```
file_name = "file.txt"  # Replace with your file name

vowels = "aeiouAEIOU"
vowel_count = consonant_count = total_characters = 0

with open(file_name, 'r') as file:
    for line in file:
        for char in line:
            if char.isalpha():
                total_characters += 1
                if char in vowels:
                    vowel_count += 1
                else:
                    consonant_count += 1

vowel_percentage = (vowel_count / total_characters) *
100 if total_characters > 0 else 0
consonant_percentage = (consonant_count / total_
characters) * 100 if total_characters > 0 else 0

print(f"Vowel percentage: {vowel_percentage:.2f}%")
print(f"Consonant percentage: {consonant_percentage:.2f}
%")
```

6. Access modes in Python:

1. 'r' - Read mode (default).

2. 'w' - Write mode (overwrites file).

3. 'x' - Exclusive creation (fails if file exists).

4. 'a' - Append mode.

5. 'b' - Binary mode.

6. 't' - Text mode (default).

7. '+' - Read and write mode.

Example:

```
with open("file.txt", "r") as file:
    data = file.read()
```

7.
```
input_file = "input.txt"
output_file = "output.txt"

with open(input_file, 'r') as infile, open(output_file, 'w'
) as outfile:
    text = infile.read()
    formatted_text = ""
    capitalize = True
    for char in text:
        if char.isdigit():
            formatted_text += f"({char})"
        elif char == '.':
            formatted_text += '.'
            capitalize = True
        elif capitalize and char.isalpha():
            formatted_text += char.upper()
            capitalize = False
        else:
            formatted_text += char
    outfile.write(formatted_text)

print(f"Formatted text written to {output_file}.")
```

8.
```
input_file = "input.txt"
output_file = "output.txt"

with open(input_file, 'r') as infile, open(output
_file, 'w') as outfile:
    for line in infile:
        outfile.write(line.replace('.', ','))

print(f"File copied to {output_file} with full
stops replaced by commas.")
```