

The screenshot shows the Visual Studio Code interface with a dark theme. In the top left, there's a file tree icon. The main area displays a Python script named `grp7_tiqui_grp_ex.py`. The code prints integers from -10 to 0 using a for loop. Below the code editor is a terminal window showing the output of the script. The terminal tab is selected, and the status bar at the bottom indicates the script was run with `python.exe` from the command line. The system status bar at the bottom right shows it's 421 AM on 3/6/2024.

```
grp7_tiqui_grp_ex.py X
grp7_tiqui_grp_ex.py > ...
1 # Group Exercise
2 # 1. Display numbers from -10 to -1 using for loop
3
4 for num in range(-10, 0):
5     print(num)
6
7

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Python> & c:/Users/18kgo/AppData/Local/Programs/Python/Python312/python.exe c:/Python/grp7_tiqui_grp_ex.py
-10
-9
-8
-7
-6
-5
-4
-3
-2
-1
PS C:\Python>
```

This screenshot shows the same VS Code environment after modifying the script. The new code includes an else block that prints "Done" after the loop completes. The terminal output now includes the word "Done" at the end of the number sequence. The system status bar at the bottom right shows it's 4:22 AM on 3/6/2024.

```
grp7_tiqui_grp_ex.py X
grp7_tiqui_grp_ex.py > ...
1 # Group Exercise
2 # 2. Use else block to display a message "Done" after successful execution of for loop
3
4
5 for num in range(-10, 0):
6     print(num)
7 else:
8     print("Done")
9

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Python> & c:/Users/18kgo/AppData/Local/Programs/Python/Python312/python.exe c:/Python/grp7_tiqui_grp_ex.py
-10
-9
-8
-7
-6
-5
-4
-3
-2
-1
Done
PS C:\Python>
```

A screenshot of the Visual Studio Code (VS Code) interface. The main editor window displays a Python script named `grp7_tiqui_grp_ex.py`. The code uses nested loops to find prime numbers between 1 and 20. The terminal below shows the output of running the script in a Windows command prompt (PS C:\Python>).

```
# Group Exercise
# 3. Write a program to display all prime numbers within a range

start = 1
end = 20

for num in range(start, end + 1):
    if num > 1:
        for i in range(2, num):
            if (num % i) == 0:
                break
            else:
                print(num)
```

Terminal output:

```
PS C:\Python> & c:/Users/18kg0/AppData/Local/Programs/Python/Python312/python.exe c:/Python/grp7_tiqui_grp_ex.py
2
3
5
7
11
13
17
19
PS C:\Python>
```

A screenshot of the Visual Studio Code (VS Code) interface. The main editor window displays a Python script named `grp7_tiqui_grp_ex.py`. The code prints elements from odd indices of a list of numbers. The terminal below shows the output of running the script in a Windows command prompt (PS C:\Python>).

```
# Group Exercise
# 4. Use a loop to display elements from a given list present at odd index positions

numbers = [12, 75, 150, 180, 145, 525, 50]

for i in range(1, len(numbers), 2):
    print(numbers[i])
```

Terminal output:

```
PS C:\Python> & c:/Users/18kg0/AppData/Local/Programs/Python/Python312/python.exe c:/Python/grp7_tiqui_grp_ex.py
75
180
525
PS C:\Python>
```

The screenshot shows a Microsoft Visual Studio Code (VS Code) interface. The top bar includes standard file operations like File, Edit, Selection, View, Go, Run, and a search bar labeled 'Python'. On the left is a sidebar with various icons for file management, including a tree view, a magnifying glass, and a gear icon. The main area displays a Python script named 'grp7_tiqui_grp_ex.py'.

```
grp7_tiqui_grp_ex.py
1 # Group Exercise
2 # 5. Display numbers from a list using loop
3 # a. The number must be divisible by five
4 # b. If the number is greater than 150, then skip it and move to the next number
5 # c. If the number is greater than 500, then stop the loop
6
7 numbers = [12, 75, 150, 180, 145, 525, 50]
8 divisible_numbers = []
9
10 for num in numbers:
11     if num % 5 == 0:
12         if num > 150:
13             continue
14         elif num > 500:
15             break
16         else:
17             divisible_numbers.append(num)
18
19 print(divisible_numbers)
20
```

Below the code editor are tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL, and PORTS. The TERMINAL tab is active, showing command-line output:

```
PS C:\Python> & C:/Users/18kg0/AppData/Local/Programs/Python/Python312/python.exe c:/Python/grp7_tiqui_grp_ex.py
[75, 150, 145, 50]
PS C:\Python>
```

The bottom status bar shows the current file location as 'Ln 20, Col 1', settings for 'Spaces: 4', 'UTF-8', and 'CRLF', the Python version '3.12.1 64-bit', and system information including the date '3/6/2024', time '4:25 AM', and weather '24°C Partly cloudy'.