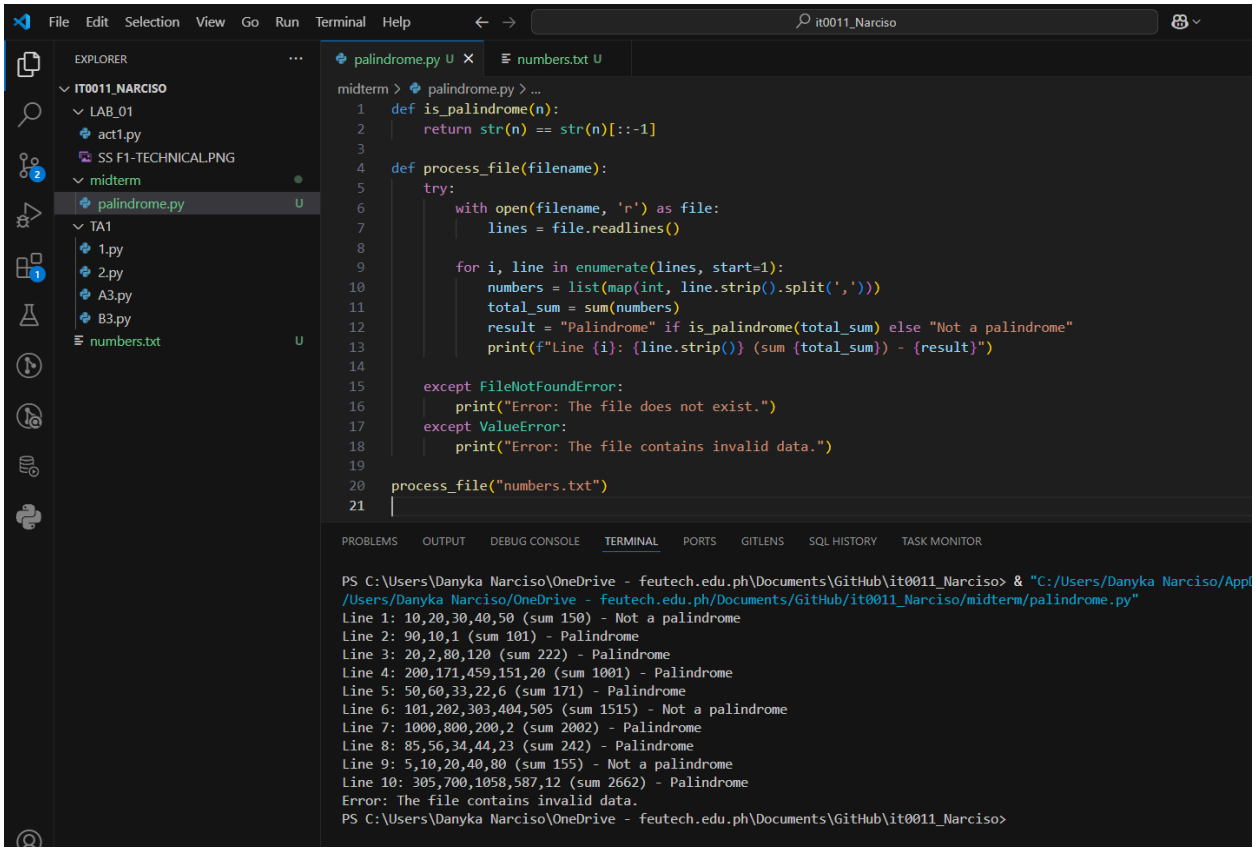
DANYKA BEATRIZ B. NARCISO TW23

1. **PALINDROME**

```
def is_palindrome(n):
    return str(n) == str(n)[::-1]

def process_file(filename):
    try:
        with open(filename, 'r') as file:
            lines = file.readlines()

        for i, line in enumerate(lines, start=1):
            numbers = list(map(int, line.strip().split(',')))
            total_sum = sum(numbers)
            result = "Palindrome" if is_palindrome(total_sum) else "Not a
palindrome"
            print(f"Line {i}: {line.strip()} (sum {total_sum}) -
{result}")

    except FileNotFoundError:
        print("Error: The file does not exist.")
    except ValueError:
        print("Error: The file contains invalid data.")

process_file("numbers.txt")
```

OUTPUT:


File Edit Selection View Go Run Terminal Help
it0011_Narciso
EXPLORER
IT0011_NARCISO
LAB_01
act1.py
SS F1-TECHNICAL.PNG
midterm
palindrome.py U
TA1
1.py
2.py
A3.py
B3.py
numbers.txt U
palindrome.py U
numbers.txt U
midterm > palindrome.py > ...
def is_palindrome(n):
return str(n) == str(n)[::-1]
def process_file(filename):
try:
with open(filename, 'r') as file:
lines = file.readlines()
for i, line in enumerate(lines, start=1):
numbers = list(map(int, line.strip().split(',')))
total_sum = sum(numbers)
result = "Palindrome" if is_palindrome(total_sum) else "Not a palindrome"
print(f"Line {i}: {line.strip()} (sum {total_sum}) - {result}")
except FileNotFoundError:
print("Error: The file does not exist.")
except ValueError:
print("Error: The file contains invalid data.")
process_file("numbers.txt")
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SQL HISTORY TASK MONITOR
PS C:\Users\Danyka Narciso\OneDrive - feutech.edu.ph\Documents\GitHub\it0011_Narciso> & "C:/Users/Danyka Narciso/App
/Users/Danyka Narciso/OneDrive - feutech.edu.ph/Documents/GitHub/it0011_Narciso/midterm/palindrome.py"
Line 1: 10,20,30,40,50 (sum 150) - Not a palindrome
Line 2: 90,10,1 (sum 101) - Palindrome
Line 3: 20,2,80,120 (sum 222) - Palindrome
Line 4: 200,171,459,151,20 (sum 1001) - Palindrome
Line 5: 50,60,33,22,6 (sum 171) - Palindrome
Line 6: 101,202,303,404,505 (sum 1515) - Not a palindrome
Line 7: 1000,800,200,2 (sum 2002) - Palindrome
Line 8: 85,56,34,44,23 (sum 242) - Palindrome
Line 9: 5,10,20,40,80 (sum 155) - Not a palindrome
Line 10: 305,700,1058,587,12 (sum 2662) - Palindrome
Error: The file contains invalid data.
PS C:\Users\Danyka Narciso\OneDrive - feutech.edu.ph\Documents\GitHub\it0011_Narciso>

2. DATE TRANSLATION

```
from datetime import datetime

date_input = input("Enter the date (mm/dd/yyyy): ")

try:
    date_obj = datetime.strptime(date_input, "%m/%d/%Y")

    formatted_date = date_obj.strftime("%B %d, %Y")

    print(f"Date Output: {formatted_date}")
except ValueError:
    print("Invalid date format! Please enter in mm/dd/yyyy format.")
```

OUTPUT: