Nama : M. Faris Daffarindra
NIM : F1E324003
Prodi : Informatika

Lab 7

1.

```python
file_str = input("Open what file:")

try:
    input_file = open(file_str)
    find_line_str = input("Which line (integer): ")
    find_line_int = int(find_line_str)
    line_count_int = 1
    for line_str in input_file:
        if line_count_int == find_line_int:
            print("Line {} of file {} is {}".format(find_line_int, file_str, line_str))
            break
        line_count_int += 1
    else:
        print("Line {} of file {} not found".format(find_line_int, file_str))
    input_file.close()

except FileNotFoundError:
    print("The file", file_str, "doesnt exist")

except ValueError:
    print("Line", find_line_str,"isnt a legal line number")

print("End of the program")
```

2.

```python
import random
import string

characters = string.ascii_letters + string.digits + string.whitespace + string.punctuation
long_string = ''.join(random.choices(characters, k=5000))

file = open("d:/kuliah/pengenalan pemograman s1/lab_7/jumble.txt", "w")
file.write(long_string)

file_name = input("Enter the file name: ")
whitespace_counts = {' ': 0, '\t': 0, '\n': 0}

try:
    file = open(file_name, "r")
    content = file.read()

    for char in content:
        if char in whitespace_counts:
            whitespace_counts[char] += 1

    print("Histogram of whitespace counts:")
    for whitespace, count in whitespace_counts.items():
        if whitespace == ' ':
            print(f"Spaces: {'*' * count}")
        elif whitespace == '\t':
            print(f"Tabs: {'*' * count}")
        elif whitespace == '\n':
            print(f"Newlines: {'*' * count}")

except FileNotFoundError:
    print(f"The file {file_name} does not exist.")
```

```
D:\Kuliah\Pemograman S1\Lab_7>py tes.py
Enter the file name: d:/kuliah/pengenalan pemograman s1/lab_7/jumble.txt
Histogram of whitespace counts:
Spaces: *******************************************
Tabs: *********************************************
Newlines: **************************************************************************************************
```