**PYTHON: UNIT-2/Labex. 1:**

**CODE:**

import re

# Sample text

text = """abc123

456xyz

a\_b c!

789abcxyz

abc xyz

no\_digits\_here"""

# 1. Digits and Non-Digits

digits = re.findall(r'\d', text)

non\_digits = re.findall(r'\D', text)

print("Digits:", digits)

print("Non-Digits:", non\_digits)

# 2. Word and Non-Word Characters

word\_chars = re.findall(r'\w', text)

non\_word\_chars = re.findall(r'\W', text)

print("Word Characters:", word\_chars)

print("Non-Word Characters:", non\_word\_chars)

# 3. Whitespace and Non-Whitespace Characters

whitespace\_chars = re.findall(r'\s', text)

non\_whitespace\_chars = re.findall(r'\S', text)

print("Whitespace Characters:", whitespace\_chars)

print("Non-Whitespace Characters:", non\_whitespace\_chars)

# 4. String Start and End

start\_abc = re.findall(r'^abc', text, re.MULTILINE)

end\_xyz = re.findall(r'xyz$', text, re.MULTILINE)

print("Lines starting with 'abc':", start\_abc)

print("Lines ending with 'xyz':", end\_xyz)

**OUTPUT:**

