JAYASREE R(24-27)

REGULAR EXPRESSIONS

import re

pattern = r"apple"

text = "I have an apple"

print("Pattern:", pattern)

print("Text:", text)

match = re.search(pattern, text)

if match:

print("MATCH FOUND!")

print("Matched text:", match.group(0))

# 2. Find all occurrences of a pattern

pattern = r"app"

text = "I have an apple and application"

print("\nPattern:", pattern)

print("Text:", text)

matches = re.findall(pattern, text)

print("All matches:", matches)

# 3. Find phone numbers

pattern = r"\d{3}-\d{3}-\d{4}"

text = "Phone numbers: 123-456-7890, 234-556-888"

print("\nPattern:", pattern)

print("Text:", text)

phone\_numbers = re.findall(pattern, text)

print("Phone numbers found:", phone\_numbers)

# 4. Substitute a string

pattern = r"apple"

text = "I have an apple"

print("\nPattern:", pattern)

print("Text:", text)

new\_text = re.sub(pattern, "orange", text)

print("After substitution:", new\_text)

# 5. Split the text based on a word

pattern = r"\s+"

text = "I have an apple"

print("\nPattern:", pattern)

print("Text:", text)

words = re.split(pattern, text)

print("Split result:", words)

OUTPUT:

Pattern: apple

Text: I have an apple

MATCH FOUND!

Matched text: apple

Pattern: app

Text: I have an apple and application

All matches: ['app', 'app']

Pattern: \d{3}-\d{3}-\d{4}

Text: Phone numbers: 123-456-7890, 234-556-888

Phone numbers found: ['123-456-7890']

Pattern: apple

Text: I have an apple

After substitution: I have an orange

Pattern: \s+

Text: I have an apple

Split result: ['I', 'have', 'an', 'apple']