

```

#Ex1NPL
import re

def detect_word_pattern(pattern, text):
    matches = re.findall(pattern, text)

    if matches:
        print("Word patterns detected:")
        for match in matches:
            print(match)
    else:
        print("No word patterns detected.")

# sample inputs and outputs
sample_inputs = [
    ("[0-9]+", "The price is $25 and the quantity is 10."),
    ("[A-Z][a-z]+", "John and Alice went to the park."),
    ("[aeiou]+", "The quick brown for jumps over the lazy dog."),
    ("[0-9]{2}-[0-9]{2}-[0-9]{4}", "The date is 12-31-2022."),
    ("[A-Za-z]+", "12345 is a number.")
]

for pattern, text in sample_inputs:
    print("patterns:", pattern)
    print("Text:", text)
    detect_word_pattern(pattern, text)
    print("-----")

```

Output:

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administrator@ab1-cse125: ~
administrator@ab1-cse125:~$ python3 exinlp.py
patterns: [0-9]+
Text: The price is $25 and the quantity is 10.
Word patterns detected:
25
10
No word patterns detected.
-----
patterns: [A-Z][a-z]+
Text: John and Alice went to the park.
Word patterns detected:
John
Alice
No word patterns detected.
-----
patterns: [aeiou]+
Text: The quick brown for jumps over the lazy dog.
Word patterns detected:
e
ut
o
o
u
o
e
e
o
No word patterns detected.
-----
patterns: [0-9]{2}-[0-9]{2}-[0-9]{4}
Text: The date is 12-31-2022.
Word patterns detected:
12-31-2022
No word patterns detected.
-----
patterns: [A-Za-z]+

```