⌄ Example 1

```
# for use with jupyter notebook install the following
# pip install jupyter
# pip install -U ipykernel

import re
text = "The date is 05/09/2024 "
pattern = r"(?P<day>\d\d)"
print("The pattern is: "+ pattern)
print("The text is: "+text)
match=re.search(pattern,text)
#print (match)
if match:
    print("search found Day:", match.group ("day"))
#if not match then print an error message
else:
    print("No match found")
```

```
The pattern is: (?P<day>\d\d)
The text is: The date is 05/09/2024
search found Day: 05
```

⌄ Example 2

```
import re
txt = "The rain in Spain"
pattern = r"\bin\b"
x = re.findall(pattern, txt)
print(x)
```

```
['in']
```

```
import re
txt = " The rain in Spain"
pattern = r"\w"
x = re.split(pattern,txt)
print(x)
```

```
[' ', '', '', ' ', '', '', '', ' ', '', ' ', '', '', '', '', '']
```

```
import re
txt = "The rain in Spain"
pattern= r"\s"
```

```
x = re.sub(pattern, "0", txt, 2)
print(x)
```

⤷ The0rain0in Spain

```
import re
txt ="The rain in Spain"
pattern = r"ain"
x = re.search(pattern,txt)
print("The first char is located in position:", x.start())
print("The last char is located in position:", x.end())
```

⤷ The first char is located in position: 5
  The last char is located in position: 8

```
import re
txt = "The rain in Spain"
pattern = r"rain"
x = re.search("rain", txt)
# Using some properties and methods
print("String:", x.string)
print("Start position:", x.start())
print("End position:", x.end())
print("Span:", x.span())
```

⤷ String: The rain in Spain
  Start position: 4
  End position: 8
  Span: (4, 8)

```
import re
text1 = "The rain in Spain"
text2 = "The sun in Spain"
pattern = r"\bS\w+"
# Using the pattern on text1
matches1 = re.findall(pattern, text1)
print(matches1)
# Using the pattern on text2
matches2 = re.findall(pattern, text2)
print(matches2)
```

⤷ ['Spain']
  ['Spain']

```
import re
text1 = "The rain in Spain"
text2 = "The sun in Spain"
# Compile the pattern
compiled_pattern = re.compile(r"\bS\w+")
# Using the compiled pattern on text1
matches1 = compiled_pattern.findall(text1)
```

```
matches1 = compiled_pattern.findall(text1)
print(matches1)
# Using the compiled pattern on text2
matches2 = compiled_pattern.findall(text2)
print(matches2)
```

```
['Spain']
['Spain']
```