

Async IO in python

Asynchronous IO or async for short, is a programming pattern that allows for high performance I/O operations in a continuous and non-blocking manner. In Python, async programming is achieved through the use of the `asyncio` module and asynchronous function.

Metacharacters in Regular Expression

```
[ ] Represent a character class
^ Matches the beginning
$ Matches the end
. Matches any character except newline
? Matches zero or one occurrence.
| Means OR (matches with any of the characters separated by it.)
* Any number of occurrence (including 0 occurrence)
+ One or more occurrence
{} indicate number of occurrences of a preceding RE to match
() Enclose a group if Req
```

For searching a text

```
match=re.search(pattern,text)
print(match)
```

Source Code

```
import re
pattern=r"[A-Z]cyclone"
text='''this is a text for Cyclone and Dyclone  and more about Ccyclone and much
more.'''
matches=re.finditer(pattern,text)
for match in matches:
    print(match.span())
    print(text[match.span()[0]:match.span()[1]])
# match=re.search(pattern,text)
# print(match)
```

Thank You