

text manipulation - parsing.

files and file manipulations

```
nameHandle = open('students', 'w')
```

slicing and splitting

slicing and splitting

text manipulation

regular expressions - quick guide

- ^ matches the beginning of a line
- \$ matches the end of a line
- . matches any character
- \s matches whitespace
- \S matches any non-whitespace character
- * repeats a character zero or more times
- *? repeats a character zero or more times (none-greedy)
- + repeats a character one or more times
- +? repeats a character one or more times (none-greedy)
- [aeiou] matches a single character in the listed set
- [^XYZ] matches a single character not in the listed set
- [a-z0-9] the set of characters can include a range
- (Indicates where string extraction is to start
-) Indicates where string extraction is to end

regular expressions - quick guide

modules = python files with .py extension

What are modules?

OS

sys module

stdin



```
graph LR; stdin --> SHELL[SHELL]; SHELL --> stdout; SHELL --> stderr;
```

SHELL

stdout

stderr

third party modules

matplotlib

pandas

numpy

FINE