

Quiz 04 Review

Announcements

• **EX05: River Simulation** due Monday at 11:59pm

	romfuture import annotations		
2	1 W. 1		
	lass Node:		
4	value: int		
5	next: Node None		
6	<pre>definit(self, value: int, next: Node None):</pre>		
7			
8	self.value = value		
9	self.next = next		
.0			
1	<pre>defstr(self) -> str:</pre>		
12	rest: str		
.3	if self.next is None:		
4	rest = "None"		
15	else:		
16	rest = str(self.next)		
17	return f"{self.value} -> {rest}"		
18			
	luto: Node = Node(22, None)		
20 n	eptune: Node = Node(15, pluto)		
5	1. Print the output.	5.3.	Print the output.
	1 print(neptune)	1	print(neptune.next)
	princ(neptune)	1	print(heptune.hext)
5	2. Print the output.	5.4.	Print the output.
	1 print(plute walue)	1	print(nontune next next)
	1 print(pluto.value)	1	print(neptune.next.next)

Create a **Book** class that represents a book in a library system. Your class should include:

Attributes:

- title (string): The book's title
- author (string): The book's author
- pages (integer): Total number of pages
- is checked out (boolean): Whether the book is currently checked out

Methods:

- __init__(self, title: str, author: str, pages: int): Constructor that initializes the book. Set is checked out to False by default.
- check out(self) -> None: Marks the book as checked out
- return_book(self) -> None: Marks the book as available
- get_reading_time(self) -> float: Estimates reading time, assuming 250 words per page and 200 words per minute
- __str__(self) -> str: Returns a formatted string with the book's information (you choose the string representation!)