

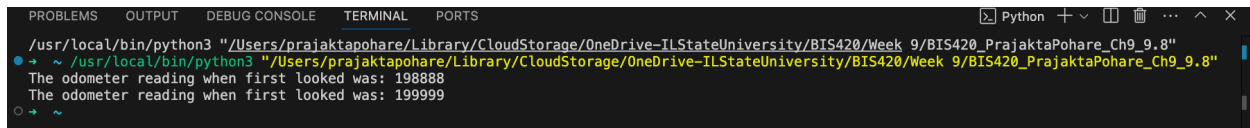
BIS 420 PROGRAMMING FOR DATA SCIENCE

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CHAPTER 9 EXERCISE 9.8
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Here's another Car Talk Puzzler ([http:// www. cartalk. com/ content/puzzlers](http://www.cartalk.com/content/puzzlers)):

“I was driving on the highway the other day and I happened to notice my odometer. Like most odometers, it shows six digits, in whole miles only. So, if my car had 300,000 miles, for example, I'd see 3-0-0-0-0-0. “Now, what I saw that day was very interesting. I noticed that the last 4 digits were palindromic; that is, they read the same forward as backward. For example, 5-4-4-5 is a palindrome, so my odometer could have read 3-1-5-4-4-5. “One mile later, the last 5 numbers were palindromic. For example, it could have read 3-6-5-4-5-6. One mile after that, the middle 4 out of 6 numbers were palindromic. And you ready for this? One mile later, all 6 were palindromic! “The question is, what was on the odometer when I first looked?”

Write a Python program that tests all the six-digit numbers and prints any numbers that satisfy these requirements. Solution: [http:// thinkpython. com/ code/ cartalk2. py](http://thinkpython.com/code/cartalk2.py).



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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS Python + - [ ] [ ] ... ^ x
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The odometer reading when first looked was: 198888
The odometer reading when first looked was: 199999
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