

India Henry
27 February 2024
CYSE250

Assignment Week 7

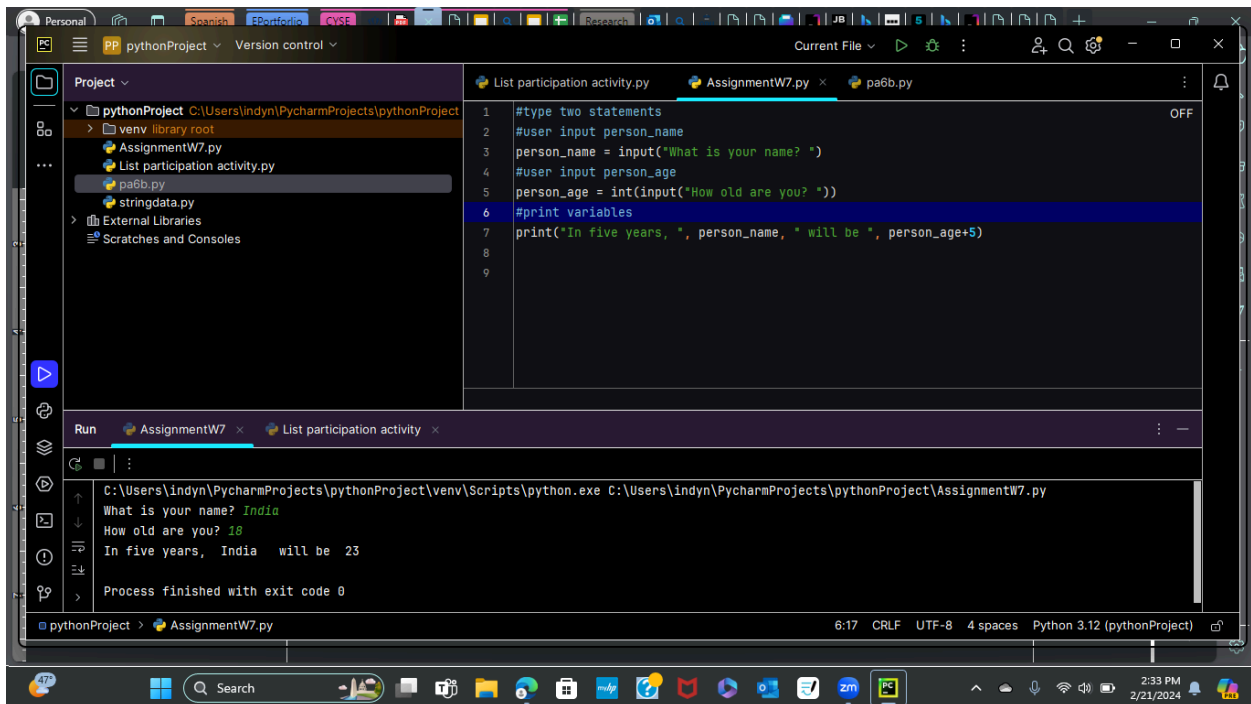
1a. What are the different data types available in python?

The two most common data types in python are strings, a series of characters inside quotes, and numbers, in the form of integers and floats/numbers with decimals.

1b. What is the difference between string and list in python?

A string is a set of characters represented by quotes where each part of the string cannot be accessed individually. Lists are a set of values (characters, integers, etc) that can be accessed from value to value according to their position on the list.

2:



The screenshot shows the PyCharm IDE interface. The left sidebar displays the project structure for 'pythonProject', including a virtual environment 'venv' and files like 'AssignmentW7.py', 'List participation activity.py', and 'pa6b.py'. The main editor window shows the code in 'AssignmentW7.py':

```
1 #type two statements
2 #user input person_name
3 person_name = input("What is your name? ")
4 #user input person_age
5 person_age = int(input("How old are you? "))
6 #print variables
7 print("In five years, ", person_name, " will be ", person_age+5)
8
9
```

The bottom panel shows the 'Run' output for 'AssignmentW7.py'. The command executed is 'C:\Users\indyn\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\indyn\PycharmProjects\pythonProject\AssignmentW7.py'. The output shows the program running with user input 'India' for the name and '18' for the age, resulting in the printed statement: 'In five years, India will be 23'. The process finished with exit code 0.