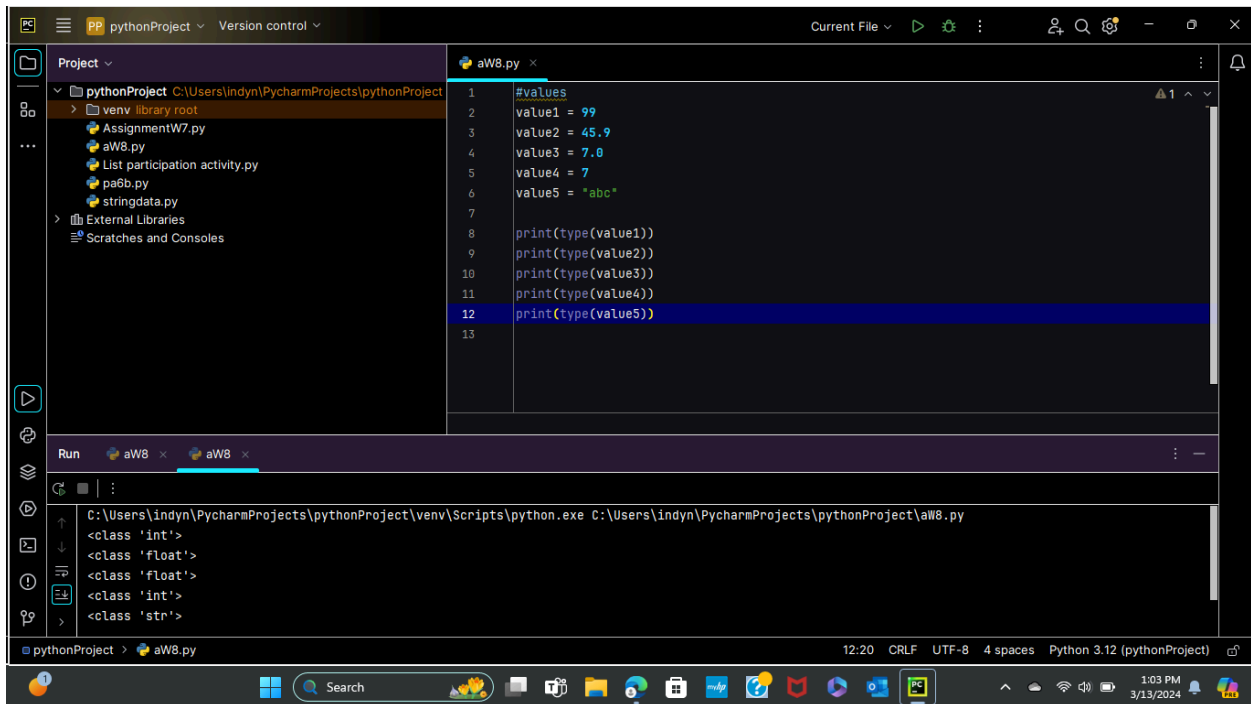


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CYSE250 - 1:30
18 March 2024

1. What is the data type to each value
 - a. Integer
 - b. Float
 - c. Float
 - d. Integer
 - e. String



The screenshot shows the PyCharm IDE interface. The main editor window displays a file named `aW8.py` with the following code:

```
1 #values
2 value1 = 99
3 value2 = 45.9
4 value3 = 7.0
5 value4 = 7
6 value5 = "abc"
7
8 print(type(value1))
9 print(type(value2))
10 print(type(value3))
11 print(type(value4))
12 print(type(value5))
13
```

The Run tool window at the bottom shows the output of the script:

```
C:\Users\indyn\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\indyn\PycharmProjects\pythonProject\pythonProject\aw8.py
<class 'int'>
<class 'float'>
<class 'float'>
<class 'int'>
<class 'str'>
```

The status bar at the bottom indicates the file is `aW8.py` in the `pythonProject` directory, using Python 3.12.

2. 0 will be printed after the three lines of code are executed because the value for `my_value` is replaced in the second line, so when it is called in the third line it displays what the value was most recently assigned as.
- 3.

The screenshot shows the PyCharm IDE with a project named 'pythonProject'. The file explorer on the left shows a directory structure with files like 'AssignmentW7.py', 'aW8.py', 'List participation activity.py', 'pa6b.py', and 'stringdata.py'. The main editor window displays the code for 'aW8.py'.

```
1 #user input for numbers
2 n1 = int(input("Enter for value 1: "))
3 n2 = int(input("Enter for value 2: "))
4 n3 = int(input("Enter for value 3: "))
5 n4 = int(input("Enter for value 4: "))
6
7 #add numbers together
8 sum = n1+n2+n3+n4
9 print(sum)
10
11 #average of numbers
12 average = sum/4
13 print(average)
```

The Run console at the bottom shows the execution output:

```
Enter for value 1: 1
Enter for value 2: 2
Enter for value 3: 3
Enter for value 4: 4
10
2.5
```

The status bar at the bottom indicates the file is 'aW8.py' in the 'pythonProject' directory, using Python 3.12, with CRLF line endings, UTF-8 encoding, and 4 spaces for indentation.

4.

The screenshot shows the PyCharm IDE with the same project 'pythonProject'. The file explorer on the left shows the same directory structure. The main editor window displays the code for 'aW8.py'.

```
1 #create a list w/ five integer numbers
2 list1 = [12, 13, 14, 15, 16]
3
4 #print elements/items of list 1
5 print(list1)
6
7 #create a second list w/ three string elements
8 list2 = ['Lansing', 'Manchester', 'Brighton']
9
10 #concatenate lists together
11 list3 = list1 + list2
12 print(list3)
```

The Run console at the bottom shows the execution output:

```
C:\Users\indyn\PycharmProjects\pythonProject\venv\Scripts\python.exe C:\Users\indyn\PycharmProjects\pythonProject\pythonProject\aw8.py
[12, 13, 14, 15, 16]
[12, 13, 14, 15, 16, 'Lansing', 'Manchester', 'Brighton']
Process finished with exit code 0
```

The status bar at the bottom indicates the file is 'aW8.py' in the 'pythonProject' directory, using Python 3.12, with CRLF line endings, UTF-8 encoding, and 4 spaces for indentation.