For Loops and Tuples Practice Problems Solutions:

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"""

tuples:
1.create a 4 element tuple that consists of a float, an integer, a Boolean value, and a string.  Assingn this tuple to a
 variable
2.print the tuple from step 1
3.print the the second element from the tuple you made in step 1
4.print the first element from the tuple you made in step 1
5.slice and print the first 3 elements of the tuple from step 1
6.slice and print the last 3 elements of the tuple from step 1
7.slice and print the middle 2 elements of the tuple from step 1

"""

# ---------------------------------------------------------------------------------------------------------

# 1.
tup4 = (1, False, "Pangolin", "4.32")

# 2.
print(tup4)

# 3.
print(tup4[1])

# 4.
print(tup4[0])

# 5.
print(tup4[:3])

# 6.
print(tup4[1:])

# 7.
print(tup4[1:3])

# ---------------------------------------------------------------------------------------------------------

"""

For Loops:
1.create a variable and assign it the tuple ("Bohr", "Leibniz", "Einstein")
2.create a variable and assign it an empty list
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3.create a variable and assign it the list [9, 8, 7, 6, 5, 4, 3, 2, 1, 0]
4.use a for loop to go through and print each of the elements from the tuple in step 1 individually
5.use a for loop, flow control statement(s), and .append() to add the middle 6 elements to the empty list from step 2
6.print the new list

"""

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# ----------------------------------------------------------------------------------------------------

# 1.
sciTup = ("Bohr", "Leibniz", "Einstein")

# 2.
loopList = []

# 3.
fullList = [9, 8, 7, 6, 5, 4, 3, 2, 1, 0]

# 4.
for names in sciTup:
    print(names)

# 5.
for num in fullList:
    if num > 1 and num < 8:
        loopList.append(num)

# 6.
print(loopList)

# ----------------------------------------------------------------------------------------------------
```