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| Datacamp |
| Data scientist with Python |
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| **User-PC** |
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**Other variable types**

* Create a new string, desc, with the value "compound interest".
* Create a new boolean, profitable, with the value True.

Solution:

# Create a variable desc

desc = "compound interest"

# Create a variable profitable

profitable = True

# Operations with other types

* Calculate the product of savings and growth\_multiplier. Store the result in year1.
* What do you think the resulting type will be? Find out by printing out the type of year1.
* Calculate the sum of desc and desc and store the result in a new variable doubledesc.
* Print out doubledesc. Did you expect this?

Solution:

savings = 100

growth\_multiplier = 1.1

desc = "compound interest"

# Assign product of savings and growth\_multiplier to year1

year1 = savings \* growth\_multiplier

# Print the type of year1

print(type(year1))

# Assign sum of desc and desc to doubledesc

# Type conversion

* *Run Code* to run the code on the right. Try to understand the error message.
* Fix the code on the right such that the printout runs without errors; use the function **[str()](https://docs.python.org/3/library/functions.html" \l "func-str" \t "_blank)** to convert the variables to strings.
* Convert the variable pi\_string to a float and store this float as a new variable, pi\_float.

Solution:

# Definition of savings and result

savings = 100

result = 100 \* 1.10 \*\* 7

# Fix the printout

print("I started with $" + str(savings) + " and now have $" + str(result) + ". Awesome!")

# Definition of pi\_string

pi\_string = "3.1415926"