

Python Basics Exercises

1. Simple Message

Task: Assign a message to a variable and then print that message.

2. Simple Messages

Task:

- Assign a message to a variable and print that message.
- Change the value of the variable to a new message, and print the new message.

3. Personal Message

Task:

- Use a variable to represent a person's name.
- Print a message to that person, such as, "Hello Eric, would you like to learn some Python today?"

4. Name Cases

Task:

- Use a variable to represent a person's name.
- Print the person's name in lowercase, uppercase, and title case.

5. Famous Quote

Task:

- Find a quote from a famous person you admire.
- Print the quote and the name of its author.

The output should look something like the following:

Albert Einstein once said, "A person who never made a mistake never tried anything new."

6. Famous Quote 2

Task:

- Use a variable called `famous_person` to represent the famous person's name.
- Compose the message and represent it with a variable called `message`.
- Print the message.

7. Stripping Names

Task:

- Use a variable to represent a person's name, and include some whitespace characters at the beginning and end of the name.
- Make sure you use each character combination, `\t` and `\n`, at least once.
- Print the name once, so the whitespace around the name is displayed.
- Print the name using each of the three stripping functions: `lstrip()`, `rstrip()`, and `strip()`.

8. Variable Sum

Task: Assign the values 5, 10, and 15 to three variables `x`, `y`, and `z`. Print their sum.

9. Variable Swap

Task: Swap the values of two variables `a` and `b`. Print the values before and after the swap.

10. Favorite Color

Task: Create a variable with your favorite color and print it. Then change the variable name to something else and print the color again.

11. Changing Pet Name

Task: Create a variable `pet_name` and set it to "Buddy". Change the value of `pet_name` to "Max" and print the new value.

12. Observing Name Error

Task: Assign the value "Sunshine" to a variable and print it. Then, mistakenly try to print a variable with a different name (like `sunsine`) and observe the error.

13. Reassigning Score

Task: Assign the value 100 to a variable `score` and print it. Then assign a new value to `score` and print it again.

14. City Name

Task: Create a string variable `city` and assign it the name of a city you like. Print the city name.

15. Title Case Text

Task: Create a variable `text` with the value "python programming" and print it in title case.

16. Lowercase Conversion

Task: Assign a string with mixed cases to a variable and print it in all lowercase letters.

17. Uppercase Conversion

Task: Assign a string with mixed cases to a variable and print it in all uppercase letters.

18. Current Temperature

Task: Create a variable `temperature` with the value 25. Print "The current temperature is [temperature] degrees." using the variable.

19. Printing a Poem

Task: Create a variable `poem` with a short poem that has multiple lines. Print the poem with each line starting on a new line.