

# Python Task: Data Types & Variables

## Instructions:

Write a Python script that completes the following steps.

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## Task Steps:

### 1 Create Variables:

- Create a variable name and assign your name as a string.
  - Create a variable age and assign your age as an integer.
  - Create a variable height in meters as a float.
  - Create a variable is\_student and assign a boolean value.
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### 2 Perform Operations:

- Print a sentence using all the variables. Example:  
"My name is Vijay, I am 25 years old, my height is 1.75 meters, and it is True that I am a student."
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### 3 List Practice:

- Create a list called favorite\_numbers containing **5 integers** of your choice.
  - Print the **first and last** number in the list.
  - Add another number to the list and print the updated list.
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### 4 Tuple Practice:

- Create a tuple dimensions containing **3 float values** representing length, width, and height of a box.
  - Print the tuple.
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### 5 Set Practice:

- Create a set called unique\_colors with **at least 4 colors**.
- Add a new color to the set.

- Remove a color from the set.
  - Print the updated set.
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#### **6 Dictionary Practice:**

- Create a dictionary called `student_info` with the following keys: `name`, `age`, `courses`.
    - `courses` should be a list of 3 course names.
  - Print the value of `courses` from the dictionary.
  - Add a new key `graduated` with a boolean value.
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#### **7 Bonus Challenge:**

Write a function `print_student_summary(student_dict)` that takes the `student_info` dictionary and prints a summary of the student in a readable format.

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