

Python Assignment

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Objective

Practice using Python variables, input, and basic arithmetic operations.

Task 1

Write a Python script that asks the user for their name, age, and favorite number. The script should then perform the following tasks:

1. Greet the user with their name.
2. Calculate the user's age in months.
3. Calculate the square of the user's favorite number.
4. Print the results.

Instructions

1. Ask the user for their name and store it in a variable.
2. Ask the user for their age and store it in a variable.
3. Ask the user for their favorite number and store it in a variable.
4. Convert the user's age to months (age in years \times 12).
5. Calculate the square of the user's favorite number.
6. Print a greeting message with the user's name.
7. Print the user's age in months.
8. Print the square of the user's favorite number.

Example Output

```
What is your name? John
How old are you? 25
What is your favorite number? 4
```

```
Hello, John!
Your age in months is: 300
The square of your favorite number is: 16
```

Task 2

Write a Python script that asks the user for the current temperature in Celsius and converts it to Fahrenheit. The script should then print the result.

Instructions

1. Ask the user for the current temperature in Celsius and store it in a variable.
2. Use the formula $\text{Fahrenheit} = \text{Celsius} \times \frac{9}{5} + 32$ to convert the temperature.
3. Print the temperature in Fahrenheit.

Example Output

```
What is the temperature in Celsius? 25
```

```
The temperature in Fahrenheit is: 77.0
```

Task 3

Write a Python script that asks the user for the number of hours they worked and their hourly wage. The script should then calculate their total pay and print the result.

Instructions

1. Ask the user for the number of hours they worked and store it in a variable.
2. Ask the user for their hourly wage and store it in a variable.
3. Calculate the total pay using the formula $\text{Total Pay} = \text{Hours Worked} \times \text{Hourly Wage}$.
4. Print the total pay.

Example Output

```
How many hours did you work? 40
```

```
What is your hourly wage? 15
```

```
Your total pay is: 600
```