

Python Conditionals and Data Types Assignment

Mustafa AbdulRazek

10 Aug 2024

Task 1: Check Voting Eligibility

Objective: Practice using conditionals and data types to determine if someone is eligible to vote.

Task

Write a Python script that asks the user for their age and checks if they are eligible to vote. If the user is 18 years old or older, the script should print a message saying they are eligible to vote. If they are younger than 18, it should print a message saying they are not eligible to vote yet.

Example Output

```
How old are you? 20
You are eligible to vote!
```

Task 2: Simple Calculator

Objective

Practice using conditionals and arithmetic operations to create a simple calculator.

Task

Write a Python script that asks the user for two numbers and then asks what operation they would like to perform: addition, subtraction, multiplication, or division. The script should then perform the requested operation and print the result.

Example Output

```
Enter the first number: 10
Enter the second number: 5
Choose an operation (+, -, *, /): *

The result is: 50.0
```

Task 3: Temperature Checker

Objective

Practice using conditionals to categorize temperatures.

Task

Write a Python script that asks the user for the current temperature in Celsius. The script should then categorize the temperature as "Cold", "Warm", or "Hot" based on the following rules:

- "Cold" if the temperature is below 15°C
- "Warm" if the temperature is between 15°C and 25°C
- "Hot" if the temperature is above 25°C

Example Output

```
What is the temperature in Celsius? 18
The temperature is 18°C, which is Warm.
```