

- ✓ All
-
- OVERALL
- Examples-Challenges
- Parsons Problems

Select which type of resource progress is displayed in the grids (Examples-Challenges and Parsons Problems). "All" displays resources in different rows. "OVERALL" shows only one row with the average across resources

Resource

Me

OVERALL	Variables and Operations	If-Else	Boolean Expressions	While Loops	For Loops	Functions	Lists	Strings	Dictionary	Values and references	Exceptions	File handling	Classes and objects







Click in a topic cell to display the activities inside (examples and challenges, parsons)







Help explains the colors (darker means more progress)

This activity (1st example-challenge on topic "Variables and Operations") is displayed after clicking in the cell

Examples-Challenges

Parsons Problems





close

Topic: Variables and Operations • Activity: Unit Converter

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Example: Celsius To Fahrenheit Conversion

Next > Example

Construct a program that computes the Fahrenheit equivalent of an input Celsius value using the formula $F = (9/5)C + 32$. The input Celsius value is an integer.

Hide Explanations

#Step 1: Assign initial values to the variables which we need for this program

Line 2. We need variable base to store the constant in the conversion formula. We set it to 32.

2 base = 32

Line 3. We need variable conversion_factor to store the conversion factor in the formula. We set it to 9/5.

3 conversion_factor = 9 / 5

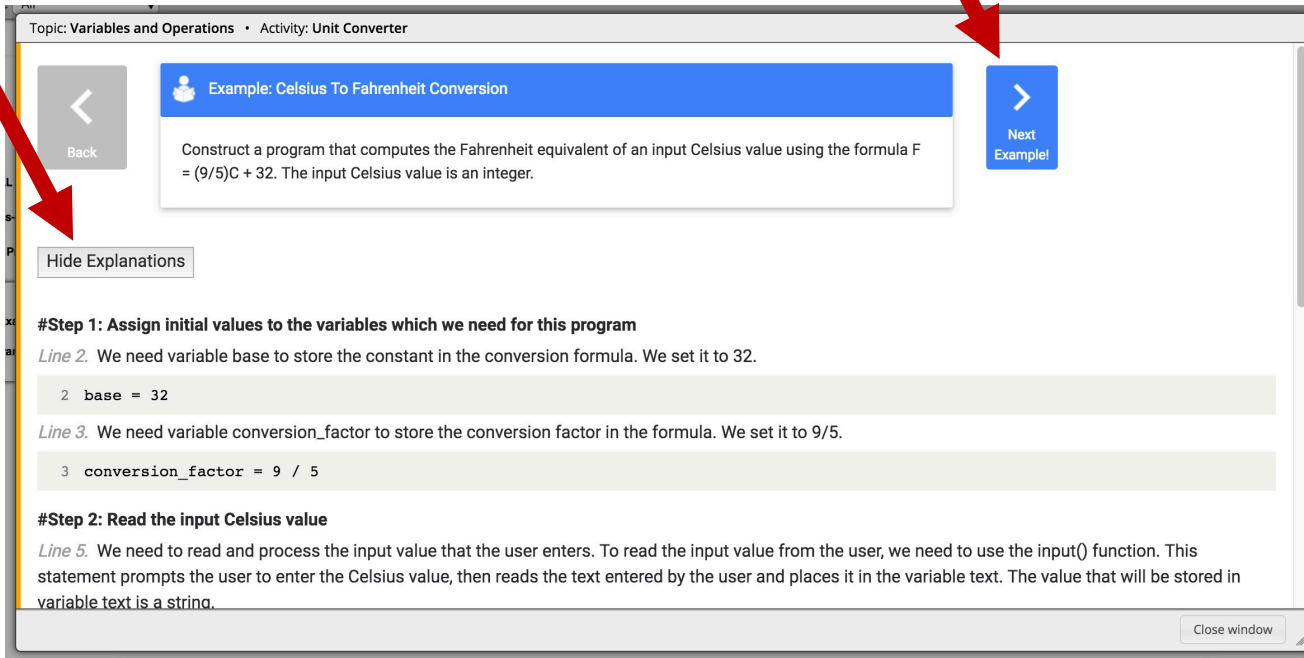
#Step 2: Read the input Celsius value

Line 5. We need to read and process the input value that the user enters. To read the input value from the user, we need to use the input() function. This statement prompts the user to enter the Celsius value, then reads the text entered by the user and places it in the variable text. The value that will be stored in variable text is a string.

Close window

Click to see next example(s)

Click to hide the explanations for the example code



Topic: Variables and Operations • Activity: Unit Converter

Example: Celsius To Fahrenheit Conversion

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Next Example!

Hide Explanations

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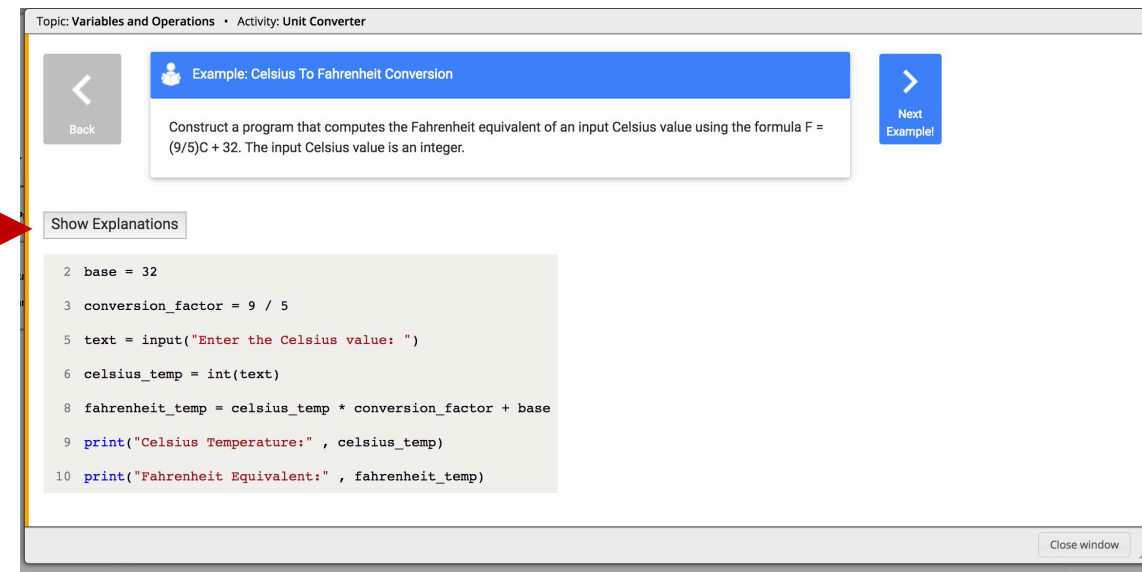
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Close window

Click to show explanations for the example code



Topic: Variables and Operations • Activity: Unit Converter

Example: Celsius To Fahrenheit Conversion

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Next Example!

Show Explanations

```
2 base = 32
3 conversion_factor = 9 / 5
5 text = input("Enter the Celsius value: ")
6 celsius_temp = int(text)
8 fahrenheit_temp = celsius_temp * conversion_factor + base
9 print("Celsius Temperature:" , celsius_temp)
10 print("Fahrenheit Equivalent:" , fahrenheit_temp)
```

Close window