

LEARN CODING

ale66

PRACTICAL PROBLEM

we want to provide US and Bangladesh tourists with real-time temperatures in their familiar Fahrenheit scale

We will read temperatures from Italian wheather sites, e.g. [meteo.it] and convert them.

The converted temperatures will appear on our turism web site

Let's focus on the core part: temperature conversion

ANATOMY OF CODE

- see the instructor write down the algorithm by which we can safely convert temperatures from Celsius (C) to Fahrenheit (F)
- Consider the problem of converting temperatures from Celsius to Fahrenheit
- watch the instructor do it manually on the whiteboard.
- identify areas of the whiteboard that contain data
- submit via the Teams channel

FROM CELLS TO VARIABLES

1. each value in the spreadsheet has a *cell address (cell name)*
2. operations are defined abstractly with cell names
3. those cell names are *variables* in programming languages

WHAT IS A VARIABLE?

A vessel for data/operands

Consists of three elements:

1. a symbolic name, e.g., `A5` or `my_temperature`
2. a value, e.g., `36` or `'very hot'`
3. a type, e.g., integer or string of characters