



# (Beta) The Year 2025 — Notes for Club Leaders

## Introduction:

This project teaches children how to use variables within a Python program, and how to perform calculations on data stored in variables. This is achieved through writing a program to calculate what a person's age will be in the year 2025.

## Resources

For this project, Python will need to be installed. It is recommended that version 3.2 of Python is installed.

You can find a completed version of this project's challenges by clicking the 'Download Project Materials' link for this project, which contains:

- ☐ TheYear3000.py
- ☐ AgeInDogYears.py

# Learning Objectives

- ☐ Data types;
- ☐ Numbers and calculations;
- ☐ Variables;
- ☐ Text input using `input()` ;
- ☐ Casting (string  $\rightarrow$  integer) using `int()` .

## Challenges

- ☐ Pocket money - expressions using numbers;
- ☐ Changing dates - altering data used in the calculations;
- ☐ The year 3000! - Adding a variable to a program;
- ☐ Your age in dog years - applying the use of variables to a new problem.

# Frequently Asked Questions

There are 2 different ways of printing numbers:

- ☐ By passing numbers as separate parameters to the `print()` function, for example:

```
print("I am", 11, "years old")
```

In this case, a space is added between each parameter.

- ☐ By casting the number to text with the `str()` function and then adding it to another text string, for example:

```
print("I am " + str(11) + " years old")
```

In this case, spaces need to be added.

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