

✓ Getting started

The document you are reading is not a static web page, but an interactive environment called a **Colab notebook** that lets you write and execute code.

For example, here is a **code cell** with a short Python script that computes a value, stores it in a variable, and prints the result:

```
#Calculation of total Infiltration by Horton's Equation
fo = float(input("Enter the value of initial Infiltration Rate:"))
fc= float(input("Enter the value of Final infiltration Rate:"))
t= int(input("Enter the value of Time:"))
kh= float(input("Enter the value of Decay Coefficient:"))
# The total Infiltration is given by:
Fp= fc*t+(fo -fc)/kh
print("The value of Total Infiltration is:", Fp)
```

```
↩ Enter the value of initial Infiltration Rate:6
Enter the value of Final infiltration Rate:1.2
Enter the value of Time:8
Enter the value of Decay Coefficient:0.888
The value of Total Infiltration is: 15.005405405405405
```

```
seconds_in_a_day = 24 * 60 * 60
seconds_in_a_day
```

```
↩ 86400
```

To execute the code in the above cell, select it with a click and then either press the play button to the left of the code, or use the keyboard shortcut "Command/Ctrl+Enter". To edit the code, just click the cell and start editing.

Variables that you define in one cell can later be used in other cells:

```
seconds_in_a_week = 7 * seconds_in_a_day
seconds_in_a_week
```

```
↩ 604800
```

Colab notebooks allow you to combine **executable code** and **rich text** in a single document, along with **images**, **HTML**, **LaTeX** and more. When you create your own Colab notebooks, they are stored in your Google Drive account. You can easily share your Colab notebooks with co-workers or friends, allowing them to comment on your notebooks or even edit them. To learn more, see [Overview of Colab](#). To create a new Colab notebook you can use the File menu above, or use the following link: [create a new Colab notebook](#).

Colab notebooks are Jupyter notebooks that are hosted by Colab. To learn more about the Jupyter project, see [jupyter.org](#).

✓ Data science

With Colab you can harness the full power of popular Python libraries to analyze and visualize data. The code cell below uses **numpy** to generate some random data, and uses **matplotlib** to visualize it. To edit the code, just click the cell and start editing.

You can import your own data into Colab notebooks from your Google Drive account, including from spreadsheets, as well as from Github and many other sources. To learn more about importing data, and how Colab can be used for data science, see the links below under [Working with Data](#).