

✓ 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:

```
P=float(input(" Load in kg: "))
p=float(input (" Tyre pressure kg/cm^2: "))
M = int(input ("Total Number of layers in a given Pavement : "))
pi = 3.14159
CBR = []
for i in range (1, M+1):
    print("California Bearing Ratio of Material in %")
    CBR_value = float (input())
    CBR.append(CBR_value)
    T = ((1.75*P)/(CBR_value)-(P/(p*pi)))*0.5
    print("Thickness Above this layer: ", T, "cm")
print("Given that bitumen layer of 4 cm")
```

```
↵ Load in kg: 4085
Tyre pressure kg/cm^2: 7
Total Number of layers in a given Pavement : 3
California Bearing Ratio of Material in %
4.38
Thickness Above this layer:  38.031276487723645 cm
California Bearing Ratio of Material in %
6
Thickness Above this layer:  31.712799015896838 cm
California Bearing Ratio of Material in %
12
Thickness Above this layer:  20.247776538573337 cm
Given that bitumen layer of 4 cm
```

```
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](#).