

✓ 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:

```
R = int(input(" Constant R: "))
C = int(input(" Constant C: "))
import numpy as geek
A = int(input ("Total Data Values for EWL Constant: "))
B = int(input ("Total Data Values for AADT: "))
EWL_Constant = []
AADT = []
for i in range (1, A+1):
    print("Enter EWL Constant:")
    A = float (input())
    EWL_Constant.append(A)
for j in range (1, B+1):
    print ("Enter AADT: ")
    B = float (input ())
    AADT.append(B)
product = geek.dot (EWL_Constant, AADT)
# print(" Dot Product :\n", product)
Total_EWL = product
print(" Total EWL :", Total_EWL)
print("EWL after 60 years :", Total_EWL*1.6)
TI = 1.35*(((1.6* Total_EWL)+((product)/2))*0.11)
print("Traffic Index :", TI)
Thickness = 0.166*TI* (90-R)/(C**0.2)
print("Pavement Thickness: ", Thickness, "cm")41
```

```
↗ Constant R: 48
Constant C: 16
Total Data Values for EWL Constant: 4
Total Data Values for AADT: 4
Enter EWL Constant:
330
Enter EWL Constant:
1070
Enter EWL Constant:
2460
Enter EWL Constant:
4620
Enter AADT:
3750
Enter AADT:
470
Enter AADT:
320
Enter AADT:
20
Total EWL : 2620000.0
EWL after 60 years : 4192000.0
Traffic Index : 7.443737215967321
Pavement Thickness: 29.80742191081138 cm
```

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

```
↗ 86400
```