

✓ 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 Mean precipitation by theissen's polygon Method
#The value of precipitation at Each station is
p1 = int(input("Enter the value of rainfall at Station 1:"))
p2 = int(input("Enter the value of rainfall at Station 2:"))
p3 = int(input("Enter the value of rainfall at Station 3:"))
p4 = int(input("Enter the value of rainfall at Station 4:"))
p5 = int(input("Enter the value of rainfall at Station 5:"))
#Area for each station
A1= int(input("Enter the value of Catchment Area for raingauge station 1:"))
A2= int(input("Enter the value of Catchment Area for raingauge station 2:"))
A3 =int(input("Enter the value of Catchment Area for raingauge station 3:"))
A4=int(input("Enter the value of Catchment Area for raingauge station 4:"))
A5= int(input("Enter the value of Catchment Area for raingauge station 5:"))
#The total catchment area is
A=A1 + A2 + A3 + A4+ A5
print("The value of Total Catchment area is:",A)
# Runoff Volume
#The volume shall be multiplied by the coefficient 2500 to cater scale effects
#Runoff Volume
V= (p1*A1 + p2*A2+ p3*A3+ p4*A4 + p5*A5)*2500
print("The runoff volume from the given catchment is:", V)
# Mean Precipitation
p = (p1*A1 + p2*A2 + p3*A3 + p4*A4 + p5*A5)/A
print("The value of Mean Precipitalon is:", p)
```

```
↵ Enter the value of rainfall at Station 1:125
Enter the value of rainfall at Station 2:175
Enter the value of rainfall at Station 3:225
Enter the value of rainfall at Station 4:275
Enter the value of rainfall at Station 5:325
Enter the value of Catchment Area for raingauge station 1:25
Enter the value of Catchment Area for raingauge station 2:30
Enter the value of Catchment Area for raingauge station 3:30
Enter the value of Catchment Area for raingauge station 4:10
Enter the value of Catchment Area for raingauge station 5:5
The value of Total Catchment area is: 100
The runoff volume from the given catchment is: 48750000
The value of Mean Precipitalon is: 195.0
```

```
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
```