**DS-MINOR-SEPTEMBER**



**MINOR PROJECT**

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**PROJECT TITLE**-- Countdown Timer Using Python having reset/stop & pause/resume features

**CODE—**

import time

import datetime

def countdown(h, m, s):

# Calculate the total number of seconds

total\_seconds = h \* 3600 + m \* 60 + s

while total\_seconds > 0:

timer = datetime.timedelta(seconds = total\_seconds)

print(timer, end="\r")

time.sleep(1)

total\_seconds -= 1

print("time over!")

def start\_time(self):

self.pause = False

while self.time\_left > 0:

m, s = divmod(self.time\_left, 60)

h = 0

if m > 60:

h, m = divmod(m, 60)

self.time\_display.config(text=f"Time Left: {h}: {m}: {s}")

self.time\_display.update()

# sleep function: for 1 second

time.sleep(1)

self.time\_left = self.time\_left -1

if self.pause == True:

break

def pause\_time(self):

self.pause = True

m, s = divmod(self.time\_left, 60)

h = 0

if m > 60:

# hour minute

h, m = divmod(m, 60)

self.time\_display.config(text=f"Time Left: {h}: {m}: {s}")

self.time\_display.update()

h = input("Enter the time in hours: ")

m = input("Enter the time in minutes: ")

s = input("Enter the time in seconds: ")

countdown(int(h), int(m), int(s))

**output---**

**Enter the time in hours: 00**

**Enter the time in minutes: 00**

**Enter the time in seconds: 5**

**time over!**

**Drive link -- https://drive.google.com/drive/my-drive**

**Colab link -- https://colab.research.google.com/drive/1JDzsf-yEGmeH-f-HJjezHth46p5nkj6K**