

Python Minor Project

Create A Countdown Timer Using Python

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COUNTDOWN TIMER



INTRODUCTION

WHO INVENTED COUNTDOWN TIMER?

Countdown Timer was first used in **1929**.

Its purpose was to create suspense. And its originator was not a scientist, but the brilliant Austrian filmmaker **Fritz Lang**.

WHAT IS THE PURPOSE OF TIMER?

The timer can be used **to measure the time elapsed or the external events occurring for a specific time interval**. They are used to maintain the operation of the embedded system in sync with the clock. The clock can be an external clock or the system clock

HOW DO WE USE COUNTDOWN TIMER?

A countdown timer can be defined as **a virtual clock that counts down from a certain date or number to indicate the end or beginning**

WHAT IS A COUNTDOWN TIMER?

A countdown timer is **a virtual clock on a landing page that counts down from a certain number or date to indicate the beginning or end of an event or offer**.

WHY DO WE USE COUNTDOWN TIMER?

We use countdown timer **to create a sense of urgency and give the feeling that "time is running out."**

WHAT IS A TIMER AND ITS TYPES?

Timers can be categorized into two main types. The word "timer" is usually reserved for **devices that counts down from a specified time interval, while devices that do the opposite, measuring elapsed time by counting upwards from zero, are called stopwatches**. A simple example of the first type is an hourglass.

FEATURES

Countdown Timer Features:

- A countdown ticker has many uses, which may include counting down to a business that's launching a new product or website on the countdown date.
- A countdown timer is a time instrument that counts the time down.
- Similar to clock time formats, you can control how countdown timers display their readings
- Start and finish when you need them.
- Countdown Timer is great for creating a countdown widget that will speed up visitors' buying decision.
- Flexible timer period.
- Start and finish numbers.
- Adaptive size of the elements.
- A countdown timer lets you count the time backwards and allows the user to set goals and finish a particular event on time
- The countdown timer's goal is to mitigate impatience, to replace uncertainty with anticipation

SAMPLE CODE

PROGRAM CODE:

```
import time
def countdown(t):
    while t:
        mins, secs = divmod(t, 60)
        timeformat = '{:02d}:{:02d}'.format(mins, secs)
        print(timeformat, end='\n')
        time.sleep(1)
        t-= 1
    print("\n,stop")
countdown(10)
```

SAMPLE OUTPUT

PROGRAM OUTPUT:

```
Python 3.10.0 (tags/v3.10.0:b494f59, Oct 4 2021, 19:00:18) [MSC v.1929 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.

===== RESTART: C:/Users/user/Downloads/N.py
=====
00:10
00:09
00:08
00:07
00:06
00:05
00:04
00:03
00:02
00:01
,stop
```
