## **COUNTDOWN TIMER-**

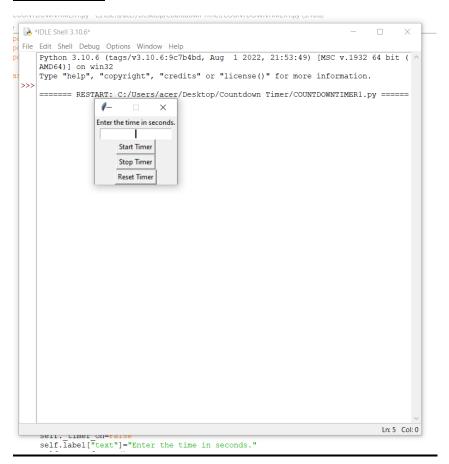
Page COUNTDOWNTIMER1.py - C:/Users/acer/Desktop/Countdown Timer/COUNTDOWNTIMER1.py (3.10.6)

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```
import tkinter as tk
import datetime
import winsound as ws
class Countdown (tk.Frame):
   def __init__(self,master):
       super(). init (master)
        self.create widgets()
       self.show widgets()
       self.seconds left=0
       self. timer on=False
    def show widgets(self):
       self.label.pack()
       self.entry.pack()
        self.start.pack()
        self.stop.pack()
        self.reset.pack()
    def create widgets(self):
        self.label=tk.Label(self,text="Enter the time in seconds.")
        self.entry=tk.Entry(self,justify="center")
        self.entry.focus set()
        self.reset=tk.Button(self,text="Reset Timer",
                             command=self.reset button)
        self.stop=tk.Button(self,text="Stop Timer",
                            command=self.stop button)
        self.start=tk.Button(self,text="Start Timer",
                             command=self.start button)
```

```
def countdown(self):
    self.label["text"]=self.convert seconds left to time()
    if self.seconds left:
         self.seconds left-=1
         self. timer on=self.after(1000, self.countdown)
        self. timer on=False
        ws.PlaySound("Alarm Clock Sound", ws.SND FILENAME)
def reset button(self):
    self.seconds left=0
    self.stop timer()
    self. timer on=False
    self.label["text"]="Enter the time in seconds."
    self.start.forget()
    self.stop.forget()
    self.reset.forget()
    self.stop.pack()
    self.reset.pack()
def stop_button(self):
     self.seconds left=int(self.entry.get())
     self.stop timer()
def start button(self):
    self.seconds left=int(self.entry.get())
    self.stop timer()
    self.countdown()
    self.start.forget()
    self.stop.forget()
    self.reset.forget()
    self.start.pack()
    self.stop.pack()
    self.reset.pack()
def stop timer(self):
    if self. timer on:
         self.after cancel(self. timer on)
         self. timer on=False
def convert seconds left to time(self):
    return datetime.timedelta(seconds=self.seconds left)
if name ==" main ":
    root=tk.Tk()
    root.resizable(False, False)
    countdown=Countdown(root)
    countdown.pack()
    root.mainloop()
```

## **OUTPUT-**



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64)] on win32
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