DIGITAL CLOCK

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CONTENT

- This project demonstrates the creation of a simple digital clock using the Tkinter library in Python.

- The clock updates every second to display the current time, showcasing the ability to create real-time applications using Tkinter.

TECHNOLOGY

PYTHON : The programming language used to develop the application.

TKINTER : Tkinter is a standard Python library used for creating graphical user interfaces (GUIs). Tkinter provides a way to create windows, dialogs, buttons, text fields, and other common GUI elements in a Python application.

KEY FEATURES

01

Real-Time Clock: Displays the current time in a digital format, updating every second.

02

Customizable Appearance: The clock’s font, background color, and text color can be customized.

03

GUI Interface: Provides a user-friendly interface where the time is displayed clearly.

OVERVIEW

- The primary objective of this project is to create a functional digital clock using Python's Tkinter library, which will display the current time in hours, minutes, and seconds, updating every second.

CODE

- **from tkinter import *:** This imports all classes and functions from the tkinter module, which is used to create graphical user interfaces (GUIs) in Python.

- **from tkinter.ttk import *:** This imports the themed widget set (ttk) from tkinter, which provides modern-looking widgets.

- **from time import strftime:** This imports the strftime function from the time module, which is used to format date and time.

- r**oot = Tk():** This creates the main application window.

- **root.title("clock"):** This sets the title of the window to "clock".

- **def time(): :** This defines a function named time.
- **string = strftime('%H:%M:%S %p'):** This line formats the current time as hours, minutes, and seconds (%H:%M:%S) followed by AM or PM (%p).
- **Label_.config(text=string):** This updates the text displayed on the Label_ widget to the current time stored in the string variable.
- **Label_.after(1000, time):** This schedules the time function to be called again after 1000 milliseconds (1 second), creating a loop that continuously updates the time.

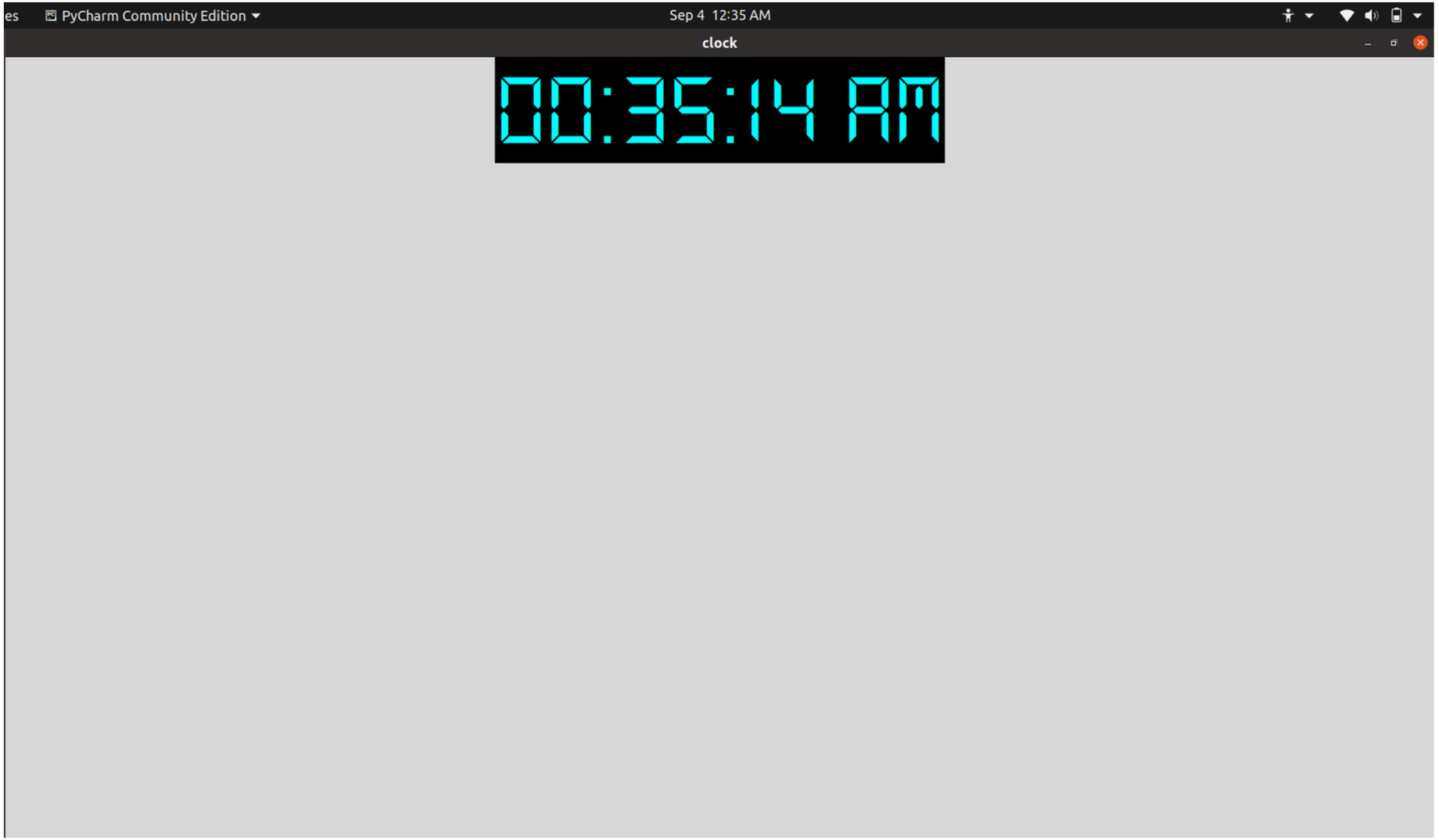
- **Label_ = Label(root, font=("ds-digital", 80), background="black", foreground="cyan"):** This creates a Label widget that will display the time. The font is set to "ds-digital" with a size of 80. The background color is set to "black", and the text color is set to "cyan".

- **Label_.pack(anchor='center'):** This places the Label widget in the center of the window using the pack geometry manager.

- **time():** This calls the time function to start the clock.

- **mainloop():** This starts the Tkinter event loop, which waits for events such as button clicks or key presses. It keeps the window open and responsive until the user closes it.

OUTPUT



THANK YOU