



ANALOG CLOCK PROJECT

The background of the slide is a close-up, slightly blurred image of an analog clock face. The clock has a light-colored dial with dark hour markers and hands. The hands are thin and metallic. In the bottom right corner, there are several thin, white, diagonal lines that add a modern, graphic touch to the design.


INTRODUCTION

- ▶ The Analog Clock Project visually represents time
 - ▶ Built using graphical programming techniques
 - ▶ Demonstrates time tracking and real-time UI updates
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- A series of white diagonal lines of varying lengths and thicknesses, located in the bottom right corner of the slide, creating a modern, abstract graphic element.


OBJECTIVE

- ▶ To design a functional analog clock
 - ▶ Enhance understanding of real-time systems
 - ▶ Practice graphical interface programming
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TOOLS & TECHNOLOGIES USED

- ▶ Programming Language: Python / JavaScript
 - ▶ Libraries: Tkinter, Pygame, or HTML Canvas
 - ▶ IDE: VS Code / PyCharm / Web Browser
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CLOCK FEATURES


- ▶ Hour, Minute, and Second Hands
 - ▶ Real-time updates synced with system clock
 - ▶ Circular clock face with time markers
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WORKING MECHANISM


- ▶ Fetch system time using datetime
 - ▶ Convert time into angles for clock hands
 - ▶ Update UI in real time using a loop or timer
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USER INTERFACE


Include:

- ▶ Clock face design
 - ▶ Real-time display
 - ▶ Sample output during run
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FUTURE ENHANCEMENTS

- ▶ Add digital clock toggle
 - ▶ Theming and customization
 - ▶ Alarm feature or stopwatch
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CONCLUSION

- ▶ Project demonstrated real-time GUI principles
 - ▶ Reinforced time-based logic and animation
 - ▶ A foundation for more advanced time tools
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THANK YOU.

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