

**CODE AND RESULT:**

```

import time
import datetime

print("=====")
print("      SIMPLE ALARM CLOCK")
print(" Using Conditional Statements & Loops")
print("=====")

# Set alarm time
alarm_time = input("Enter alarm time (HH:MM:SS) : ")

print("\nAlarm set for", alarm_time)
print("Waiting for alarm...\n")

# Infinite loop to check time
while True:
    # Get current time
    current_time = datetime.datetime.now().strftime("%H:%M:%S")

    # Display current time (optional)
    print("Current Time:", current_time, end="\r")

    # Check if alarm time matches
    if current_time == alarm_time:
        print("\nAlarm Time Reached!")
        print("Alarm Ringing....")

        # Alarm sound using loop
        for i in range(5):
            print("\a")      # Beep sound
            time.sleep(1)

        print("Alarm Stopped.")
        break # Exit the loop once alarm is triggered

    # Wait for 1 second before checking again
    time.sleep(1)

```

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**RESULT:**

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## SIMPLE ALARM CLOCK

Using Conditional Statements & Loops

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Enter alarm time (HH:MM:SS) : 14:26:00

Alarm set for 14:26:00

Waiting for alarm...

Current Time: 14:26:00

Alarm Time Reached!

Alarm Ringing....

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Alarm Stopped.

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