FUNCTION FOR TEMPERTAURE MONITOR AND PROVIDE ALERT

```
import random
import time
def monitor_temperature(lower_limit, upper_limit, interval=1):
  try:
    while True:
      temperature = random.uniform(lower limit - 5, upper limit + 5) #
Simulate temperature readings
      print(f"Current Temperature: {temperature:.2f} °C")
      if temperature < lower limit:
        print(f"ALERT: Temperature below lower limit ({lower_limit} °C)!")
      elif temperature > upper limit:
        print(f"ALERT: Temperature above upper limit ({upper limit} °C)!")
      time.sleep(interval)
  except KeyboardInterrupt:
    print("\nTemperature monitoring stopped.")
if __name__ == "__main__":
  try:
    lower = float(input("Enter lower temperature limit (°C): "))
```

```
upper = float(input("Enter upper temperature limit (°C): "))
interval = float(input("Enter monitoring interval (seconds): "))

if lower >= upper:
    print("Error: Lower limit must be less than upper limit.")
    else:
        monitor_temperature(lower, upper, interval)

except ValueError:
    print("Invalid input. Please enter numeric values.")
```