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import tkinter as tk
from tkinter import messagebox

def hitung():
    try:
        panjang = float(input_panjang.get())
        lebar = float(input_lebar.get())

        luas = panjang * lebar
        keliling = 2 * (panjang + lebar)

        hasil_luas.config(text=f"luas: {luas:.2f}")
        hasil_keliling.config(text=f"keliling: {keliling:.2f}")
    except ValueError:
        messagebox.showerror("Error", "masukan angka yang valid")

window = tk.Tk()
window.title("kalkulator persegi panjang")
window.geometry("300x200")

label_panjang = tk.Label(window, text="panjang:")
label_panjang.pack()
input_panjang = tk.Entry(window)
input_panjang.pack()
```

```
label_lebar = tk.Label(window, text="lebar:")
label_lebar.pack()
input_lebar = tk.Entry(window)
input_lebar.pack()

Button_hitung = tk.Button(window, text="Hitung", command=hitung)
Button_hitung.pack()

hasil_luas = tk.Label(window, text="luas: ")
hasil_luas.pack()

hasil_keliling = tk.Label(window, text="keliling: ")
hasil_keliling.pack()

window.mainloop()
```