

A screenshot of a Python application running in a code editor. The application is titled "BMI Calculator" and features a simple user interface with two input fields for height (cm) and weight (kg), and a button to calculate BMI. The background shows the source code of the application.

The source code is a Python script named `BMI_Calculator.py`. It uses the Tkinter library to create a window with labels, entry fields, and a button. It also includes logic to calculate BMI and display the result in a label, handling errors for invalid input.

```
1 #!/usr/bin/python3
2
3 import tkinter as tk
4 from tkinter import messagebox
5
6 def calculate_bmi():
7     try:
8         height = float(entry_height.get())
9         weight = float(entry_weight.get())
10        bmi = weight / (height * height)
11        bmi_rounded = round(bmi, 2)
12        category = "Normal"
13        if bmi >= 30:
14            category = "Obese"
15        elif bmi >= 25:
16            category = "Overweight"
17        elif bmi >= 18.5:
18            category = "Normal"
19        else:
20            category = "Underweight"
21
22        label_result.config(text=f"BMI: {bmi_rounded} - {category}")
23    except ValueError:
24        messagebox.showerror("Invalid input", "Please enter valid numeric values for height and weight.")
25
26 root = tk.Tk()
27 root.title("BMI Calculator")
28 root.geometry("300x200")
29
30 label_height = tk.Label(root, text="Height (cm):")
31 label_height.pack(pady=(10, 5))
32 entry_height = tk.Entry(root)
33 entry_height.pack()
34
35 label_weight = tk.Label(root, text="Weight (kg):")
36 label_weight.pack(pady=(10, 5))
37 entry_weight = tk.Entry(root)
38 entry_weight.pack()
39
40 button_calc = tk.Button(root, text="Calculate BMI", command=calculate_bmi)
41 button_calc.pack(pady=15)
42
43 label_result = tk.Label(root, text="")
44 label_result.pack()
45
46 root.mainloop()
```

The terminal tab shows the command used to run the script: `PS D:\PYTHON> & C:/Users/Hp/AppData/Local/Programs/Python/Python313/python.exe d:/PYTHON/BMI_Calculator.py`.

The bottom status bar indicates the current line (Ln 40, Col 1), spaces (Spaces: 4), encoding (UTF-8), and other developer tools like BLACKBOX Autocomplete and Prettier.

A screenshot of a Python application running in a code editor. The application is titled "BMI Calculator". It features a window with two input fields: "Height (cm)" containing "180" and "Weight (kg)" containing "63". A button labeled "Calculate BMI" is present. Below the inputs, the text "BMI: 19.44 - Normal weight" is displayed. The background shows the Python code for the application.

```
BMI Calculator
Height (cm):
180
Weight (kg):
63
Calculate BMI
BMI: 19.44 - Normal weight
configurations
1 import tkinter as tk
2 from tkinter import messagebox
3
4 def calculate_bmi():
5     height = float(entry_height.get())
6     weight = float(entry_weight.get())
7
8     bmi = weight / (height * height)
9
10    bmi_rounded = round(bmi, 2)
11
12    if bmi < 18.5:
13        category = "Underweight"
14    elif bmi < 25.0:
15        category = "Normal weight"
16    elif bmi < 30.0:
17        category = "Overweight"
18    else:
19        category = "Obese"
20
21    label_result.config(text=f"BMI: {bmi_rounded} - {category}")
22
23 except ValueError:
24     messagebox.showerror("Invalid input", "Please enter valid numeric values for height and weight.")
25
26 root = tk.Tk()
27 root.title("BMI Calculator")
28 root.geometry("300x200")
29
30 label_height = tk.Label(root, text="Height (cm):")
31 label_height.pack(pady=(20, 5))
32 entry_height = tk.Entry(root)
33 entry_height.pack()
34
35 label_weight = tk.Label(root, text="Weight (kg):")
36 label_weight.pack(pady=(10, 5))
37 entry_weight = tk.Entry(root)
38 entry_weight.pack()
39
40 button_calc = tk.Button(root, text="Calculate BMI", command=calculate_bmi)
41 button_calc.pack(pady=15)
42
43 label_result = tk.Label(root, text="")
44 label_result.pack()
45
46 root.mainloop()
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\PYTHON> & C:/Users/Hp/AppData/Local/Programs/Python/Python313/python.exe d:/PYTHON/BMI_Calculator.py

BREAKPOINTS

- Raised Exceptions
- Uncaught Excep...
- User Uncaught E...

BLACKBOX Agent Open Website In 40 Col 1 Spaces: 4 UTF-8 CR LF { } Python 3.13.7 BLACKBOX Autocomplete: ON (●) Go Live BLACKBOXAI: Open Chat Prettier