Name : Trada Utsav
Enrollment No : 22FOTCA11114
Roll No : 31
Div : 6BCAB

Tutorial=14

Q.1	Upload script using Button.

Code	import tkinter as tk
	
	def change_bg(color):
	  root.configure(bg=color)
	
	root = tk.Tk()
	root.title("Color Changer")
	root.geometry("400x300")
	
	colors = ["red", "green", "blue", "yellow", "lightblue", "darkgray"]
	
	for i, color in enumerate(colors):
	  btn = tk.Button(root, text=color.capitalize(), bg=color, fg="white" if i < 3 else "black", width=15, height=2,
	  command=lambda c=color: change_bg(c))
	  btn.grid(row=i//3, column=i%3, padx=10, pady=10)
	
	root.mainloop()

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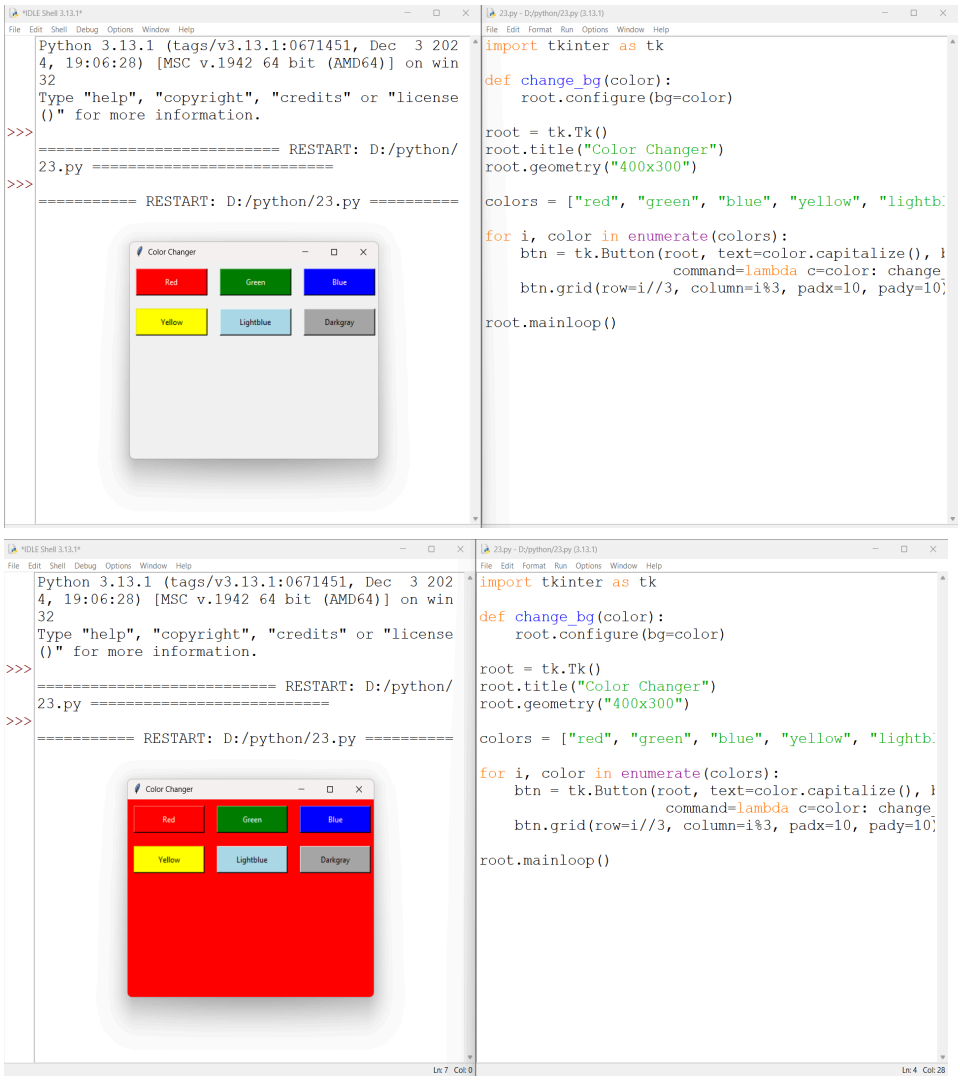
Output



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<table>
<tr><td></td><td> 
</td></tr>
<tr><td>Code</td><td>

```
import tkinter as tk

def calculate(operation):
    try:
        num1 = float(entry1.get())
        num2 = float(entry2.get())
        if operation == '+':
            result.set(num1 + num2)
        elif operation == '-':
            result.set(num1 - num2)
        elif operation == '*':
            result.set(num1 * num2)
        elif operation == '/':
            if num2 != 0:
                result.set(num1 / num2)
            else:
                result.set("Error: Division by zero")
    except ValueError:
        result.set("Error: Invalid input")
```

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```
root = tk.Tk()
root.title("Simple Calculator")


tk.Label(root, text="No1:").grid(row=0, column=0)
tk.Label(root, text="No2:").grid(row=1, column=0)


entry1 = tk.Entry(root)
entry1.grid(row=0, column=1)
entry2 = tk.Entry(root)
entry2.grid(row=1, column=1)

result = tk.StringVar()
tk.Label(root, text="Answer:").grid(row=2, column=0)
tk.Label(root, textvariable=result).grid(row=2, column=1)


tk.Button(root, text="+", command=lambda:
calculate('+')).grid(row=3, column=0)
tk.Button(root, text="-", command=lambda:
calculate('-')).grid(row=3, column=1)
tk.Button(root, text="", command=lambda:
calculate('')).grid(row=3, column=2)
tk.Button(root, text="/", command=lambda:
calculate('/')).grid(row=3, column=3)


root.mainloop()
```

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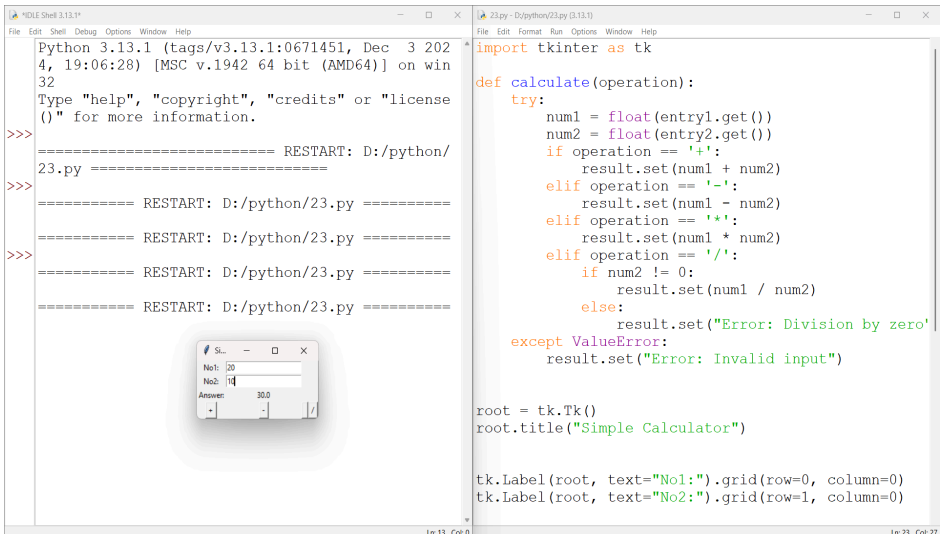
Output



Code

```
import tkinter as tk
from tkinter import messagebox

def show_textbox():
    entry_label.pack()
    entry.pack()
    submit_button.pack()

def submit_text():
    messagebox.showinfo("Submitted", f"You entered: {entry.get()}")

def open_calculator():
    import subprocess
    subprocess.run("calc")

def calculate_square_area():
    try:
        side = float(entry_square.get())
        area = side ** 2
        messagebox.showinfo("Area", f"Area of square:
```

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	{area}") except ValueError: messagebox.showerror("Error", "Enter a valid number") root = tk.Tk() root.title("Button Actions") root.geometry("300x300") btn1 = tk.Button(root, text="Show Textbox", command=show_textbox) btn1.pack(pady=10) entry_label = tk.Label(root, text="Enter text:") entry = tk.Entry(root) submit_button = tk.Button(root, text="Submit", command=submit_text) btn2 = tk.Button(root, text="Open Calculator", command=open_calculator) btn2.pack(pady=10) entry_square = tk.Entry(root) entry_square.pack() btn3 = tk.Button(root, text="Find Area of Square", command=calculate_square_area) btn3.pack(pady=10) root.mainloop()

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Output