Calculator using Python

```
Program Code:-
import tkinter as tk
from tkinter import messagebox
def button_click(symbol):
  if symbol == '=':
    try:
      result = eval(entry.get())
      entry.delete(0, tk.END)
      entry.insert(tk.END, str(result))
    except Exception as e:
      messagebox.showerror("Error", "Invalid Input")
  elif symbol == 'C':
    entry.delete(0, tk.END)
  else:
    entry.insert(tk.END, symbol)
# Create main window
root = tk.Tk()
root.title("Calculator")
# Dark mode colors
root.config(bg="#2b2b2b")
button_color = "#333333"
text_color = "#ffffff"
```

```
entry = tk.Entry(root, width=35, borderwidth=5, bg=button_color, fg=text_color, font=("Arial", 14))
entry.grid(row=0, column=0, columnspan=4, padx=10, pady=10)
# Define buttons
buttons = [
  ('7', 1, 0), ('8', 1, 1), ('9', 1, 2), ('/', 1, 3),
  ('4', 2, 0), ('5', 2, 1), ('6', 2, 2), ('*', 2, 3),
  ('1', 3, 0), ('2', 3, 1), ('3', 3, 2), ('-', 3, 3),
  ('0', 4, 0), ('.', 4, 1), ('=', 4, 2), ('+', 4, 3),
  ('C', 5, 0), ('^', 5, 1), ('\forall', 5, 2), ('!', 5, 3) # Additional operations: exponent (^), square root (\forall'),
factorial (!)
]
# Create buttons
for (text, row, column) in buttons:
  button = tk.Button(root, text=text, padx=40, pady=20, bg=button_color, fg=text_color,
              font=("Arial", 12, "bold"), command=lambda symbol=text: button_click(symbol))
  button.grid(row=row, column=column)
# Run the main event loop
root.mainloop()
```

Entry field