# **Basic Calculator and Discount Calculator**

## **Objective:**

The objective of this code is to generate a code for creating a graphical user interface application using tkinter in Python. It includes a basic calculator to perform arithmetic calculations. The second calculator is the discount calculator to calculate the final price after the discount.

### Benefits:

The benefits of the user that can easy and more accurate to compute with the calculator.

Simple interface: Easy to use interface for calculation.

Time-saving: Calculation is done within few seconds.

Toolkit for beginners: It can be used to understand the GUI toolkit for beginner level students.

**Purpose**: The reason for this code is that the GUI application uses the tkinter library and its code written in this markdown file.

Purpose The code is aimed to outline a tkinter-based GUI application. It allows implementing the solution that creates multiple windows or Toplevel. The user is enabled to carry out basic arithmetic operations and get a discount based on the provided data. \* Significance The code is also valuable since it demonstrates how the GUI is programmed in Python via the tkinter library. It can be used as a basis for more complicated solutions. For developers, it can serve as the starting point for designing applications with the same idea.

**Significance**: This code is significant as it is used as a GUI and takes an input integer and string and displays as it is a string specifies the functionality of tkinter and the output cost is a string means it can not perform the inline addition operation on integer.

## Features:

Basic calculator: includes four function – plus, minus, multiply, and divide;

Clear function. The function that allows the user to clear the field in the calculator. It clears the field and resets the value of a or b in python;

Error calculation. If user put error function writhed error. In the future, it is possible to implement a function that does not receive error-alert messages;

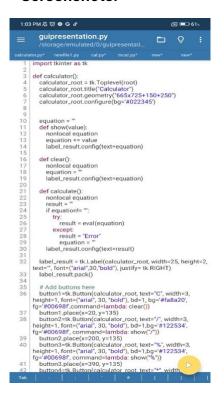
Discount: discount. Calculates and outputs the discounted from the main price.

### Code:

1	import tkinter as tk
2	
3	def calculator():
4	calculator_root = tk.Toplevel(root)
5	calculator_root.title("Calculator")
6	calculator_root.geometry("665x725+150+250")
8	calculator_root.configure(bg='#022345')
9	
10	equation = ""
11	def show(value):
12	nonlocal equation
13	equation += value
14	label_result.config(text=equation)
15	
16	def clear():
17	nonlocal equation
18	equation = ""
19	label_result.config(text=equation)
20	def calculate():
22	nonlocal equation
23	result = ""
24	if equation!= "":
25	try:
26	result = eval(equation)
27	except:
28	result = "Error"
29	equation = **
30	label_result.config(text=result)
31	label secult - th Label/colout-t tuttle OF / 111.0
32	label_result = tk.Label(calculator_root, width=25, height=2, text="", font=("arial",30,"bold"), justify= tk.RIGHT)
33	label_result.pack()
34	rabel_result.pack()
35	# Add buttons here
36	button1=tk.Button(calculator_root, text="C", width=3.
	height=1, font=("arial", 30, "bold"), bd=1, bg='#fa8a20',
	fg='#00698f',command=lambda: clear())
37	button1.place(x=20, y=135)
38	button2=tk.Button(calculator_root, text="/", width=3,
	height=1, font=("arial", 30, "bold"), bd=1,bg='#122534',
	fg='#00698f', command=lambda: show("/"))
39	button2.place(x=200, y=135)
40	b. 44 - 2 al. D. 44 - / - l. d. 44 4 d. 4 Bor B d. 44 - 2
40	button3=tk.Button(calculator_root, text= % , widtn=3,
40	button3=tk.Button(calculator_root, text="%", width=3, height=1, font=("arial", 30, "bold"), bd=1,bg='#122534',
	fg='#00698f', command=lambda: show("%"))
41	height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg='#00698f', command=lambda: show("%")) button3.place(x=390, y=135)
	height=1, font=(arial*, 30, 'bold'), bd=1,bg=#122534', fg='#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4=tk.Button(calculator_root, text="**, width=3,
41	height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4=k.Button(calculator_root, text="*, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534',
41 42	height=1, font=("arial", 30, "bold"), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4=tk.Button(calculator_root, text="*", width=3, height=1, font=("arial", 30, "bold"), bd=1,bg=#122534', fg=#00698f', command=lambda: show("*"))
41	height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4=k.Button(calculator_root, text="*, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534',
41 42 43	height=1, tont=("arial", 30, "bold"), bd=1,bg=#122534', fg=#00698f', command=lambdais show("%")) button3.place(x=390, y=135) button4+tk.Button(calculator_root, text=**, width=3, height=1, font=("arial", 30, "bold"), bd=1,bg=#122534', fg=#00698f', command=lambdais show("*")) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3,
41 42 43 44	height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4=tk.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("*")) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff',
41 42 43 44 45	height=1, font=("arial", 30, "bold"), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4=tk.Button(calculator_root, text="**, width=3, height=1, font=("arial", 30, "bold"), bd=1,bg=#122534', fg="#00698f', command=lambda: show("*")) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=("arial", 30, "bold"), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7"))
41 42 43 44 45	height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4=tk.Button(calculator_root, text=**", width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg='#122534', fg=#00698f', command=lambda: show("*")) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg='#d6e9ff', fg=#00698f', command=lambda: show("7")) button5.place(x=20, y=235)
41 42 43 44 45	height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4=tk.Button(calculator_root, text="**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("*")) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7")) button5.place(x=20, y=235) button6=tk.Button(calculator_root, text="8", width=3,
41 42 43 44 45	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command-lambdas:show('%')) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, "bold'), bd=1,bg=#122534', fg=#00698f', command-lambdas:show('*')) button4,place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command-lambdas:show('7")) button5.place(x=20, y=235) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff',
41 42 43 44 45	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4=tk.Button(calculator_root, text="*", width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("*")) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7")) button5.place(x=20, y=235) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("8"))
41 42 43 44 45 46 47	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4=tk.Button(calculator_root, text="*", width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("*")) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7")) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("8")) button6.place(x=200, y=235) button6-tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("8")) button6.place(x=200, y=235) button6-tk.Button(calculator_root, text="9", width=3, button6-tk.Button6-
41 42 43 44 45 46 47	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command-lambdas:show('%'')) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("*")) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("")) button5.place(x=20, y=235) button6=tk.Button(calculator_root, text=*8", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("8")) button6-place(x=200, y=235) button7=tk.Button(calculator_root, text=*8", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("8")) button6-place(x=200, y=235) button7=tk.Button(calculator_root, text=*9", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff',
41 42 43 44 45 46 47 48 49	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show("%")) button3.place(x=390, y=135) button4=k:Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, "bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show("*")) button4-place(x=530, y=135) button5=tk:Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("7")) button5.place(x=20, y=235) button6=tk:Button(calculator_root, text=*8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("8")) button6.place(x=200, y=235) button7=tk:Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("9"))
41 42 43 44 45 46 47 48 49	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3 place(x=390, y=135) button4=tk.Button(calculator_root, text="*", width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("*")) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7")) button5.place(x=20, y=235) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("8")) button6.place(x=200, y=235) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("9")) button7.place(x=390, y=235) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=iambda: show("9")) button7.place(x=390, y=235) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=sambda: show("9")) button7.place(x=390, y=235)
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41 42 43 44 45 46 47 48 49	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4=tk.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show('*")) button4.place(x=530, y=135) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7")) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("8")) button6.place(x=200, y=235) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("9")) button7.place(x=390, y=235) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#122534', height=1, font=('arial', 30, 'bold'), bd=1, bg=#122534',
41 42 43 44 45 46 47 48 49 50 51	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show('%')) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show('*')) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('7")) button5.place(x=20, y=235) button6=tk.Button(calculator_root, text='8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('8")) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('9")) button7-place(x=200, y=235) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#122534', fg=#00698f', command=lambda: show('9"))
41 42 43 44 45 46 47 48 49	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4=tk.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show('*")) button4.place(x=530, y=135) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7")) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("8")) button6.place(x=200, y=235) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("9")) button7.place(x=390, y=235) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#122534', height=1, font=('arial', 30, 'bold'), bd=1, bg=#122534',
41 42 43 44 45 46 47 48 49 50 51	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show('%')) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show('*')) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('7")) button5.place(x=20, y=235) button6=tk.Button(calculator_root, text='8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('8")) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('9")) button7-place(x=200, y=235) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#122534', fg=#00698f', command=lambda: show('9"))
41 42 43 44 45 46 47 48 49 50 51 52 53	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4=tk.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show('*")) button4.place(x=530, y=135) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7")) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("8")) button6.place(x=200, y=235) button6=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("9")) button7.place(x=390, y=235) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#122534', fg=#00698f', command=lambda: show("-")) button8=place(x=530, y=235) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff',
41 42 43 44 45 46 47 48 49 50 51 52 53 54	height=1, font=("arial", 30, "bold"), bd=1,bg=#122534', fg=#00698f', command=lambdas: show("%")) button3.place(x=390, y=135) button4+k.Button(calculator_root, text="*", width=3, height=1, font=("arial", 30, "bold"), bd=1,bg=#122534', fg=#00698f', command=lambdas: show("*")) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=("arial", 30, "bold"), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7")) button5.place(x=20, y=235) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=("arial", 30, "bold"), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("8")) button6-place(x=200, y=235) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=("arial", 30, "bold"), bd=1, bg=#d6e9ff', fg=#00699f', command=lambdas: show("9")) button7.place(x=390, y=235) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=("arial", 30, "bold"), bd=1, bg=#122534', fg=#00699f', command=lambdas: show("")) button8.place(x=530, y=235) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=("arial", 30, "bold"), bd=1, bg=#406e9ff', gb=#00699f', command=lambdas: show("")) button8.place(x=530, y=235) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=("arial", 30, "bold"), bd=1, bg=#d6e9ff', fg=#00699f', command=lambdas: show("")) button8.place(x=530, y=235)
41 42 43 44 45 46 47 48 49 50 51 52 53 54	height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("%")) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, "bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show('*")) button4.place(x=530, y=135) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7")) button5-place(x=20, y=235) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("8")) button6.place(x=200, y=235) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("9")) button7.place(x=390, y=235) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("-")) button8.place(x=530, y=235) button8.place(x=530, y=235) button8.place(x=530, y=235) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('-1)) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('-1)) button9-place(x=20, y=335)
41 42 43 44 45 46 47 48 49 50 51 52 53 54	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show('%'')) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show('*'')) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('7'')) button5=tk.Button(calculator_root, text=*8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('8'')) button6=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('8'')) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('9'')) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('-")) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('4")) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('4")) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('4")) button9=tk.Button(calculator_root, text="5", width=3, button0=tk.Button(calculator_root, text="5", width=3, button0=tk
41 42 43 44 45 46 47 48 49 50 51 52 53 54	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas:show("%")) button3.place(x=390, y=135) button4+k.Button(calculator_root, text="*", width=3, height=1, font=('arial', 30, "bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas:show("*")) button5-place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda:show("7")) button5-place(x=20, y=235) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda:show("8")) button6-place(x=200, y=235) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas:show("9")) button7-place(x=390, y=235) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d122534', fg=#00698f', command=lambdas:show("-")) button8.place(x=530, y=235) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas:show("-")) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas:show("4")) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas:show("4")) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas:show("4")) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas:show("4"))
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("8")) button3.place(x=390, y=135) button4+k.Button(calculator_root, text="*", width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("*")) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7")) button5.place(x=20, y=235) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("8")) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("9")) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("9")) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("4")) button9.place(x=530, y=235) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("4")) button9.place(x=20, y=335) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("4")) button9.place(x=20, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("4"))
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show('%'')) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show('*'')) button4-place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('7")) button5-place(x=20, y=235) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('8")) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('9")) button7.place(x=390, y=235) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#122534', fg=#00698f', command=lambda: show("-")) button8.place(x=530, y=235) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("-")) button9.place(x=20, y=335) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("-")) button9.place(x=20, y=335) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('5")) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('5")) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('5")) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show('5")) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show('%'')) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("*")) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("")) button5-place(x=20, y=235) button6=tk.Button(calculator_root, text=*8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("8")) button7=tk.Button(calculator_root, text=*9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("9")) button7=tk.Button(calculator_root, text=*", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("9")) button8=tk.Button(calculator_root, text=*-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("4")) button9.place(x=530, y=235) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("4")) button9.place(x=20, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("4")) button0.place(x=20, y=335) button0-tk.Button(calculator_root, text="6", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("4")) button0.place(x=20, y=335) button0-tk.Button(calculator_root, text="6", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("4")) button0.place(x=200, y=335) button0-tk.Button(calculator_root, text="6", width=3, height=1, font=('arial', 30, 'arial', 30,
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show("%")) button3.place(x=390, y=135) button4=k:Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, "bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show("*")) button5=k:Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("7")) button5-place(x=20, y=235) button6=k:Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("8")) button6.place(x=200, y=235) button6=k:Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("8")) button7-place(x=390, y=235) button7-place(x=390, y=235) button8=k:Button(calculator_root, text="-x", width=3, height=1, font=('arial', 30, "bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show("-1)) button8-place(x=530, y=235) button9=k:Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, "bold'), bd=1,bg=#d6e9ff', fg=#00698f', command=lambdas: show("4")) button9-place(x=20, y=335) button0=k:Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, "bold'), bd=1,bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0=k:Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, "bold'), bd=1,bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0=k:Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0=k:Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0=k:Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#d6e9ff', fg=#00698f', command=lambdas: show("5"))
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show("8")) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show("8")) button5-tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7")) button5-place(x=20, y=235) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("8")) button6-place(x=200, y=235) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("9")) button7.place(x=390, y=235) button7=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#122534', fg=#00698f', command=lambda: show("")) button8.place(x=530, y=235) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("4")) button9.place(x=20, y=335) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("5")) button9.place(x=20, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("5")) button0.place(x=200, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("5")) button0.place(x=200, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("6")) button0.place(x=200, y=335) button0=tk.Button(0alculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("6"))
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show("%")) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, "bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show("*")) button4-place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7")) button5.place(x=20, y=235) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("8")) button6-place(x=200, y=235) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("9")) button7.place(x=390, y=235) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("-")) button8.place(x=530, y=235) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("4")) button9.place(x=20, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0=tk.Button(calculator_root, text="6", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0=tk.Button(calculator_root, text="6", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0.place(x=20, y=335) button0=tk.Button(calculator_root, text="6", width=3, height=1, font=('arial', 30, "bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("6")) button0.place(x=20, y=335) button0=tk.Button(calculator_root
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambda: show("8")) button3.place(x=390, y=135) button4+k.Button(calculator_root, text="*", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#122534', fg=#00698f', command=lambda: show("*")) button5-tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("7")) button5-place(x=20, y=235) button6=k.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("8")) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("9")) button7=tk.Button(calculator_root, text="", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("9")) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("4")) button9.place(x=530, y=235) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("4")) button9.place(x=20, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("5")) button0.place(x=200, y=335) button0=tk.Button(calculator_root, text="6", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("6")) button0.place(x=200, y=335) button0=tk.Button(calculator_root, text="6", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("6")) button0.place(x=200, y=335) button0=tk.Button(calculator_root, text="6", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambda: show("6")) button0.place(x=200, y=335) button0=tk.Button(alculator_root, text="6", width=3, height=1, font=('
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58	height=1, font=('arial', 30, 'bold'), bd=1, bg=#122534', fg=#00698f', command=lambdas: show('%')) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show('*')) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('7")) button5.place(x=20, y=235) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('8")) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('9")) button7.place(x=390, y=235) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("-")) button8.place(x=390, y=235) button9=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("-")) button9.place(x=20, y=335) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0.place(x=20, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0.place(x=20, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0.place(x=20, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0.place(x=20, y=335) button1=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) butto
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534, fg=#00698f, command=lambda: show("%")) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f, command=lambda: show("*")) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("7")) button5-place(x=20, y=235) button6=tk.Button(calculator_root, text=*8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("8")) button7=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("8")) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("9")) button8=tk.Button(calculator_root, text="-1", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("4")) button9.place(x=50, y=235) button9=tk.Button(calculator_root, text="4", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("4")) button9.place(x=20, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("4")) button0.place(x=200, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("6")) button0.place(x=200, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("6")) button0.place(x=200, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("6")) button0.place(x=200, y=335) button0=tk.Button(alculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62	height=1, tont=('arial', 30, 'bold'), bd=1,bg=#122534, fg=#00698f, command=lambda: show("\$")) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f, command=lambda: show("*")) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("7")) button5-place(x=20, y=235) button6=tk.Button(calculator_root, text=*8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("8")) button6-place(x=20, y=235) button6=tk.Button(calculator_root, text=*8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("8")) button7=tk.Button(calculator_root, text=*9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("9")) button8=tk.Button(calculator_root, text=***, width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("4")) button9.place(x=530, y=235) button9=tk.Button(calculator_root, text=*4", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("4")) button9.place(x=20, y=335) button0=tk.Button(calculator_root, text=*5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("4")) button0.place(x=200, y=335) button0-lk.Button(calculator_root, text=*6", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff, fg=#00698f, command=lambda: show("6")) button0.place(x=200, y=335) button0.place(x=300, y=335) button0.place(x=300, y=335) button0.place(x=300, y=335) button0.place(x=300, y=335) button0.place(x=300, y=335)
41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	height=1, font=('arial', 30, 'bold'), bd=1, bg=#122534', fg=#00698f', command=lambdas: show('%')) button3.place(x=390, y=135) button4+k.Button(calculator_root, text=**, width=3, height=1, font=('arial', 30, 'bold'), bd=1,bg=#122534', fg=#00698f', command=lambdas: show('*')) button4.place(x=530, y=135) button5=tk.Button(calculator_root, text="7", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('7")) button5.place(x=20, y=235) button6=tk.Button(calculator_root, text="8", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('8")) button7=tk.Button(calculator_root, text="9", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show('9")) button7.place(x=390, y=235) button8=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("-")) button8.place(x=390, y=235) button9=tk.Button(calculator_root, text="-", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("-")) button9.place(x=20, y=335) button9=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0.place(x=20, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0.place(x=20, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0.place(x=20, y=335) button0=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) button0.place(x=20, y=335) button1=tk.Button(calculator_root, text="5", width=3, height=1, font=('arial', 30, 'bold'), bd=1, bg=#d6e9ff', fg=#00698f', command=lambdas: show("5")) butto

```
button12.place(x=20, y=435)
button13=tk.Button(calculator_root, text="2", width=3,
height=1, font=("arial", 30, "bold"), bd=1, bg=#d6e9ff,
fg=#00698f, command=lambda: show("2"))
button13.place(x=200, y=435)
button14=tk.Button(calculator_root, text="3", width=3,
height=1, font=("arial", 30, "bold"), bd=1, bg=#d6e9ff,
fg=#00698f, command=lambda: show("3"))
button15=tk.Button(calculator_root, text="0", width=8,
height=1, font=("arial", 30, "bold"), bd=1, bg=#d6e9ff,
fg=#00698f, command=lambda: show("0"))
button15.place(x=20, y=535)
   64
65
   69
    70
71
72
             button16=tk.Button(calculator_root, text=".", width=3, height=1, font=("arial", 30, "bold"), bd=1,bg=#d6e9ff, fg='#00698f', command=lambda: show("."))
             tig=#00696i, command=ambda.snow(-))
button16.place(x=350, y=535)
button17=tk.Button(calculator_root, text="=", width=3,
height=2, font=("arial", 30, "bold"), bd=1,bg="#505050',
fg=#00698f, command=lambda: calculate())
button17.place(x=530, y=445)
             def discount_calculator():
                 calculator_root = tk.Toplevel(root)
calculator_root.title("Discount Calculator")
calculator_root.title("Discount Calculator")
calculator_root.goometry("400200+150+250")
calculator_root.configure(bg='#0558ac')
   80
81
82
83
             marked_price_label = tk.Label(calculator_root,
text="Marked Price:", bg='#a8c6e0')
marked_price_label.pack()
marked_price_entry = tk.Entry(calculator_root)
marked_price_entry.pack()
    84
    85
    86
87
88
             discount_label = tk.Label(calculator_root, text="Discount (%):",bg='#a8c6e0")
discount_label.pack()
discount_entry = tk.Entry(calculator_root)
discount_entry.pack()
    89
    90
             final_price_label = tk.Label(calculator_root, text="Final
Price:",bg=#a8c6e0")
final_price_label.pack()
   95
                def calculate_final_price():
    marked_price = float(marked_price_entry.get())
  96
   97
                      discount_percentage = float(discount_entry.get())
discount = (discount_percentage / 100) * marked_price
selling_price = marked_price - discount
  98
   99
 100
                      final_price_label.config(text=f"Final Price: {selling_price:.
101
            2f}")
102
                      discount_label.config(text=f"Discount:
             {discount_percentage:.2f}%")
103
104
            calculate_button = tk.Button(calculator_root, text="Calculate", bg='#d6e9ff',
            command=calculate_final_price)
                calculate_button.pack()
106
           root = tk.Tk()
root.title("Main Window")
107
108
109
            root.geometry("200x200")
           root.configure(bg='#0097e8') # blue background
           button2 = tk.Button(root, text="Discount Calculator", command=discount_calculator, bg='#ffcc00', fg='#00698f')
112
             # light orange background and blue text
113
           button2.pack(pady=10)
           button = tk.Button(root, text="Calculator",
command=calculator, bg="#33cc33", fg="#00698f") # light
green background and blue text
115
116
            button.pack(pady=10)
           118
119
            quit_button.pack(pady=10)
120
121
122
            root.mainloop()
```

### **Screenshots:**













## PERSONAL INFORMATION

Name: Kim C. Catay

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Email address: kimcatay123@gmail.com

Date of Birth: 01/23/2004

Place of Birth: Surigao City

Address: Brgy, Canlanipa Surigao City

Age: 20

Nationality: Filipino

Religion: Roman Catholic

Civil Status: Single

# **EDUCATIONAL BACKGROUND**

Elementary: Canlanipa Central Elementary School

Brgy, Canlanipa Surigao City

Junior High School: Taft National High School

Brgy, Taft Surigao City

Senior High School: Taft National High School

Brgy, Taft Surigao City