Mini project

Develop a desktop application - Basic arithmetic calculator which performs addition, subtraction, multiplication, division and mod operation using GUI.

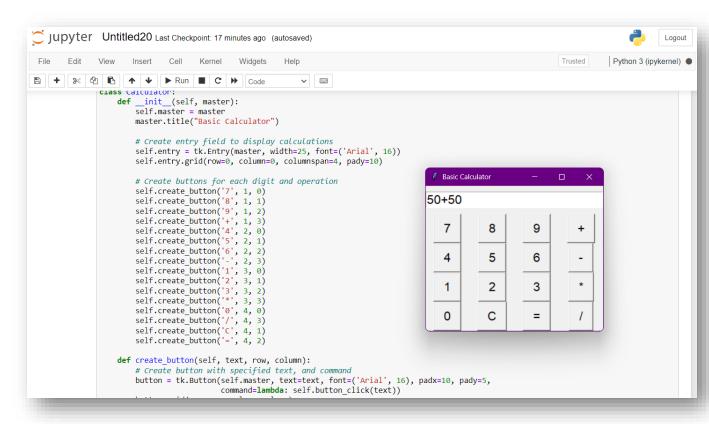
Code:

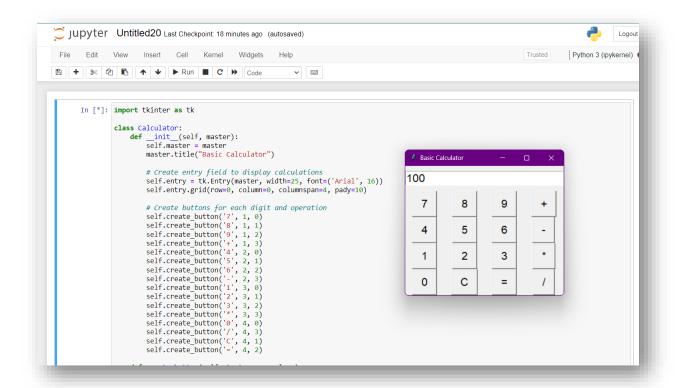
```
import tkinter as tk
class Calculator:
  def init (self, master):
    self.master = master
    master.title("Basic Calculator")
    # Create entry field to display calculations
    self.entry = tk.Entry(master, width=25, font=('Arial', 16))
    self.entry.grid(row=0, column=0, columnspan=4, pady=10)
    # Create buttons for each digit and operation
    self.create button('7', 1, 0)
    self.create_button('8', 1, 1)
    self.create_button('9', 1, 2)
    self.create_button('+', 1, 3)
    self.create_button('4', 2, 0)
    self.create button('5', 2, 1)
    self.create_button('6', 2, 2)
```

```
self.create button('-', 2, 3)
    self.create button('1', 3, 0)
    self.create_button('2', 3, 1)
    self.create_button('3', 3, 2)
    self.create button('*', 3, 3)
    self.create button('0', 4, 0)
    self.create_button('/', 4, 3)
    self.create button('C', 4, 1)
    self.create button('=', 4, 2)
  def create_button(self, text, row, column):
    # Create button with specified text, and command
    button = tk.Button(self.master, text=text, font=('Arial', 16), padx=10,
pady=5,
               command=lambda: self.button click(text))
    button.grid(row=row, column=column)
  def button click(self, text):
    if text == '=':
       # Calculate the result and display it
       result = eval(self.entry.get())
       self.entry.delete(0, tk.END)
       self.entry.insert(0, str(result))
    elif text == 'C':
       # Clear the entry field
       self.entry.delete(0, tk.END)
    else:
```

Add the clicked button's text to the entry field self.entry.insert(tk.END, text)

```
if __name__ == '__main__':
    root = tk.Tk()
    calc = Calculator(root)
    root.mainloop()
```





Conclusion:

Hence we developed the desktop application - Basic arithmetic calculator which performs addition, subtraction, multiplication, division and mod operation using GUI.