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Mini Projet 1 – POO et les Modules

Captures d'écrans:

Question 1:

calcul.py:

```
      ◆ calculpy ∪ X
      D > ℃ □

      src > ♦ calculpy > ...
      1

      class Calcul:
      def _init_(self, a, b) -> None:

      self.a = a
      def_init_(self, a, b) -> None:

      self.b = b
      def_verifier_numerique(self):

      return isinstance(self.a, (float, int)) and isinstance(self.b, (float, int))

      def calcul_somme(self):
      if self._verifier_numerique():

      return 'Erreur: Les valeurs doivent être numériques'

      def calcul_soustraction(self):
      if self._verifier_numerique():

      return 'Erreur: Les valeurs doivent être numériques'

      def calcul_multiplication(self):
      if self._verifier_numerique():

      return self.a * self.b
      else:

      return 'Erreur: Les valeurs doivent être numériques'

      def calcul_division(self):
      if self._verifier_numerique():

      return 'Erreur: Les valeurs doivent être numériques'

      def calcul_division(self):
      if self._verifier_numerique():

      return 'Erreur: Division par zéro'
      else:

      return 'Erreur: Division par zéro'

      else:
      return 'Erreur: Les valeurs doivent être numériques'
```

Résultat:

```
36
37   calcul = Calcul(5, 3)
38
39   print('5 + 3', calcul.calcul_somme())
40   print('5 - 3', calcul.calcul_soustraction())
41   print('5 * 3', calcul.calcul_multiplication())
42   print('5 / 3', calcul.calcul_division())
```

```
(.venv) eoussama@EO-Desktop ~/p/g/ma-oop-python-projet-1 (main)> python3 src/calcul.py
5 + 3 8
5 - 3 2
5 * 3 15
5 / 3 1.666666666666667
```

Question 2:

calcul_web.py:

```
      ◆ calcut_web.py U x
      D ∨ % □ ...

      src > ♦ calcut_web.py > ⊕ main
      ...

      1 import streamlit as st
      ...

      2 from calcut import Calcut
      ...

      3 st.image('./fsr-logo.png')
      ...

      9 st.write('# Bienvenu à notre calcutatrice')
      ...

      10 valeur1 = st.number_input('valeur1')
      valeur2 = st.number_input('valeur2')

      13 mon_calc = Calcut(valeur1, valeur2)
      ...

      15 st.divider()
      ...

      17 col1, col2, col3, col4 = st.columns(4)
      ...

      18 if col1.button('somme'):
      ...

      20 col1.write(mon_calc.calcut_somme())
      ...

      21 if col2.button('soustraction'):
      ...

      22 if col3.button('multiplication'):
      ...

      23 col2.write(mon_calc.calcut_soustraction())
      ...

      24 col3.button('division'):
      ...

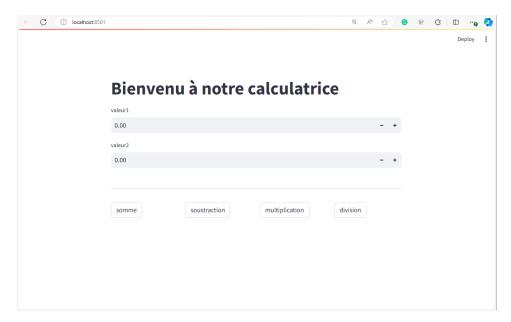
      25 if col4.button('division'):
      ...

      26 col4.write(mon_calc.calcut_division())
      ...

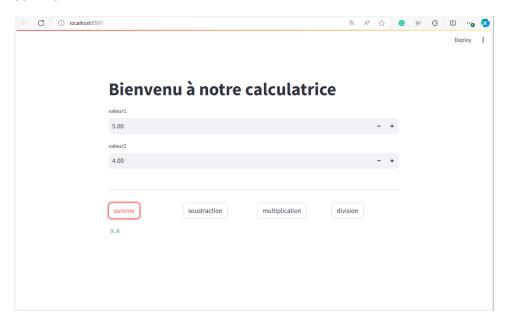
      30 if __name_ == '__main__':
      ...

      31 if __name_ == '__main__':
      ...
```

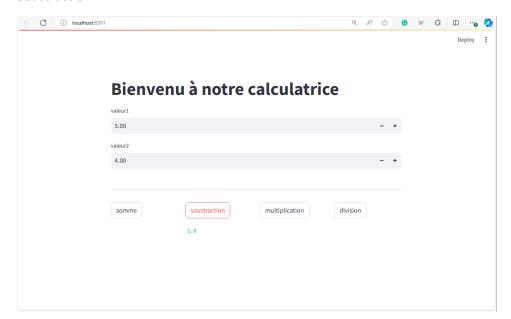
Résultat:



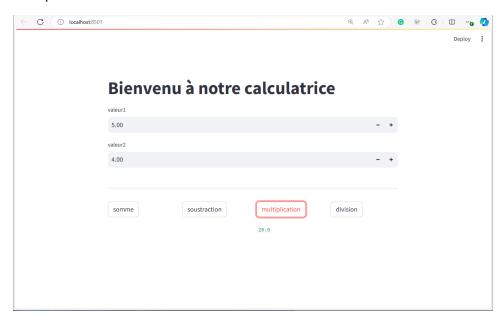
Somme:



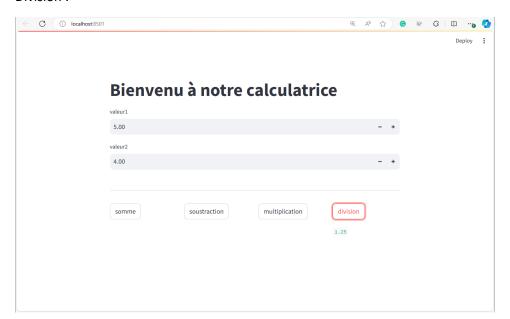
Soustraction:



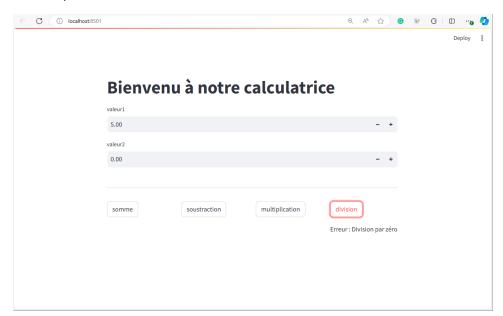
Multiplication:



Division:



Division par zéro :



Question 3:

