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Code

JupyterLab | Python 3 (ipykernel)

[ ]:
```
#mini project
#Design and implement a simple command-line calculator application in Python, utilizing functions to perform basic arithmetic operations. The primary obj
1.addition
2.subtraction
3.Multiplication
4.division  on two input numbers.
```

[1]:
```
# calculator.py

def add(num1, num2):
    """Return the sum of two numbers."""
    return num1 + num2


def subtract(num1, num2):
    """Return the difference of two numbers."""
    return num1 - num2


def multiply(num1, num2):
    """Return the product of two numbers."""
    return num1 * num2


def divide(num1, num2):
    """Return the quotient of two numbers."""
    if num2 == 0:
        raise ValueError("Cannot divide by zero.")
    return num1 / num2
```

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Code

JupyterLab Python 3 (ipykernel)

```
def divide(num1, num2):
    """Return the quotient of two numbers."""
    if num2 == 0:
        raise ValueError("Cannot divide by zero.")
    return num1 / num2


def main():
    """Run the calculator application."""
    print("Simple Command-Line Calculator")
    print("--------------------------------")

    while True:
        print("\nOperations:")
        print("1. Addition")
        print("2. Subtraction")
        print("3. Multiplication")
        print("4. Division")
        print("5. Quit")

        choice = input("Choose an operation (1-5): ")

        if choice == "5":
            print("Exiting calculator. Goodbye!")
            break

        elif choice not in ["1", "2", "3", "4"]:
            print("Invalid choice. Please choose again.")
            continue

        try:
            num1 = float(input("Enter the first number: "))
            num2 = float(input("Enter the second number: "))
```

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Code

JupyterLab | Python 3 (ipykernel)

```
            num2 = float(input("Enter the second number: "))

            if choice == "1":
                result = add(num1, num2)
                print(f"{num1} + {num2} = {result}")

            elif choice == "2":
                result = subtract(num1, num2)
                print(f"{num1} - {num2} = {result}")

            elif choice == "3":
                result = multiply(num1, num2)
                print(f"{num1} * {num2} = {result}")

            elif choice == "4":
                result = divide(num1, num2)
                print(f"{num1} / {num2} = {result}")

        except ValueError as e:
            print(f"Error: {e}")


if __name__ == "__main__":
    main()
```

```
Simple Command-Line Calculator
------------------------------

Operations:
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Quit
Choose an operation (1-5):  1
Enter the first number:  10
```

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Code

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Python 3 (ipykernel)

```
if __name__ == "__main__":
    main()
```

```
Simple Command-Line Calculator
------------------------------

Operations:
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Quit
Choose an operation (1-5):  1
Enter the first number:  10
Enter the second number:  10
10.0 + 10.0 = 20.0

Operations:
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Quit
Choose an operation (1-5):  2
Enter the first number:  100
Enter the second number:  20
100.0 - 20.0 = 80.0

Operations:
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Quit
Choose an operation (1-5):  3
Enter the first number:  100
Enter the second number:  2
100.0 * 2.0 = 200.0
```

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Code

JupyterLab Python 3 (ipykernel)

```
Operations:
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Quit
Choose an operation (1-5):  1000
Invalid choice. Please choose again.

Operations:
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Quit
Choose an operation (1-5):  2
Enter the first number:  1
Enter the second number:  1
1.0 - 1.0 = 0.0

Operations:
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Quit
Choose an operation (1-5):  4
Enter the first number:  1000
Enter the second number:  2
1000.0 / 2.0 = 500.0

Operations:
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Quit
```

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Code

JupyterLab

Python 3 (ipykernel)

```
2. Subtraction
3. Multiplication
4. Division
5. Quit
Choose an operation (1-5):  2
Enter the first number:  1
Enter the second number:  1
1.0 - 1.0 = 0.0

Operations:
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Quit
Choose an operation (1-5):  4
Enter the first number:  1000
Enter the second number:  2
1000.0 / 2.0 = 500.0

Operations:
1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Quit
Choose an operation (1-5):  5
Exiting calculator. Goodbye!
```

[ ]: