

PY- 4 (Mini Calculator)

[1]: # Simple Command-Line Calculator in Python

```
# Function for addition
def add(x, y):
    return x + y

# Function for subtraction
def subtract(x, y):
    return x - y

# Function for multiplication
def multiply(x, y):
    return x * y

# Function for division
def divide(x, y):
    # Check if denominator is zero
    if y == 0:
        return "Error! Division by zero."
    else:
        return x / y

# Function to display the menu
def display_menu():
    print("\nSimple Command-Line Calculator")
    print("Choose an operation:")
    print("1. Addition")
    print("2. Subtraction")
    print("3. Multiplication")
    print("4. Division")
    print("5. Exit")
```

```
# Main function to run the calculator
def main():
    while True:
        display_menu()

        # Get the user choice for operation
        choice = input("Enter choice (1/2/3/4/5): ")

        # Check if the user wants to exit
        if choice == '5':
            print("Exiting the calculator. Goodbye!")
            break

        # Ensure the user enters a valid operation choice
        if choice not in ['1', '2', '3', '4']:
            print("Invalid input! Please select a valid operation.")
            continue

        # Get the two numbers from the user
        try:
            num1 = float(input("Enter the first number: "))
            num2 = float(input("Enter the second number: "))
        except ValueError:
            print("Invalid input! Please enter numeric values.")
            continue

        # Perform the chosen operation
        if choice == '1':
            print(f"{num1} + {num2} = {add(num1, num2)}")
        elif choice == '2':
            print(f"{num1} - {num2} = {subtract(num1, num2)}")
        elif choice == '3':
            print(f"{num1} * {num2} = {multiply(num1, num2)}")
```

```
elif choice == '3':
    print(f"{num1} * {num2} = {multiply(num1, num2)}")
elif choice == '4':
    result = divide(num1, num2)
    print(f"{num1} / {num2} = {result}")

# Run the calculator
if __name__ == "__main__":
    main()
```

Simple Command-Line Calculator

Choose an operation:

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit

Enter choice (1/2/3/4/5): 1

Enter the first number: 23

Enter the second number: 32

23.0 + 32.0 = 55.0

Simple Command-Line Calculator

Choose an operation:

1. Addition
2. Subtraction
3. Multiplication
4. Division
5. Exit

Enter choice (1/2/3/4/5): 5

Exiting the calculator. Goodbye!
