<u>Introduction</u>

Welcome to the Python Simple Calculator! This calculator is designed to perform basic arithmetic operations such as addition, subtraction, multiplication, and division effortlessly within the Python programming language. Whether you're a beginner just starting to learn Python or an experienced developer seeking a quick solution for mathematical computations, this calculator provides a user-friendly interface and reliable functionality.

With Python's flexibility and readability, this calculator aims to demonstrate the power of Python in implementing fundamental mathematical operations in a concise and understandable manner. Its simplicity makes it suitable for educational purposes, allowing users to grasp the core concepts of programming while performing everyday calculations.

In this calculator, you'll find intuitive prompts guiding you through each step of the calculation process. Whether you're adding up expenses, calculating percentages, or solving equations, this calculator is here to assist you with accuracy and efficiency.

Feel free to explore the features and functionalities of this Python Simple Calculator. Let's embark on a journey of mathematical exploration and computation together!

```python
# Simple calculator using if-else statements

# Function to add two numbers
def add(x, y):
    return x + y

# Function to subtract two numbers
def subtract(x, y):
    return x - y

# Function to multiply two numbers
def multiply(x, y):
    return x * y

# Function to divide two numbers
def divide(x, y):
    return x / y

print("Select operation:")
print("1. Add")
print("2. Subtract")
print("3. Multiply")
print("4. Divide")
```

```python
choice = input("Enter choice (1/2/3/4):")

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

if choice == '1':
    print(num1, "+", num2, "=", add(num1, num2))
elif choice == '2':
    print(num1, "-", num2, "=", subtract(num1, num2))
elif choice == '3':
    print(num1, "*", num2, "=", multiply(num1, num2))
elif choice == '4':
    print(num1, "/", num2, "=", divide(num1, num2))
else:
    print("Invalid input")
```

```
Select operation:
1. Add
2. Subtract
3. Multiply
4. Divide
Enter choice (1/2/3/4):2
Enter first number: 32
Enter second number: 12
32.0 - 12.0 = 20.0
```

__Conclusion__

In conclusion, the Python Simple Calculator offers a convenient and accessible tool for performing basic arithmetic operations with ease. Through its user-friendly interface and straightforward functionality, users can effortlessly carry out calculations, making it an invaluable resource for students, professionals, and enthusiasts alike.

As we've explored the capabilities of this calculator, we've witnessed the simplicity and effectiveness of Python in handling mathematical tasks. From addition and subtraction to multiplication and division, the calculator showcases Python's versatility and practicality in implementing fundamental algorithms.

Whether you're solving equations, budgeting finances, or simply exploring the world of programming, the Python Simple Calculator serves as a reliable companion, empowering users to tackle mathematical challenges with confidence and precision.

As you continue your journey with Python programming, remember the foundational principles embedded within this calculator and the endless possibilities it represents. Let your curiosity and creativity flourish as you harness the power of Python to solve problems, express ideas, and innovate in the digital landscape.

Thank you for exploring the Python Simple Calculator. May your mathematical endeavors be rewarding, and your programming adventures be fruitful. Happy calculating!