

Here's a simple Python calculator program that can perform basic arithmetic operations such as addition, subtraction, multiplication, and division. The program allows users to input two numbers and select an operation to perform.

```
def calculator():
```

```
    while True:
```

```
        print("\nSimple Python Calculator")
```

```
        print("1. Addition (+)")
```

```
        print("2. Subtraction (-)")
```

```
        print("3. Multiplication (*)")
```

```
        print("4. Division (/)")
```

```
        print("5. Exit")
```

```
        choice = input("Enter your choice (1-5): ")
```

```
        if choice == '5':
```

```
            print("Exiting the calculator. Goodbye!")
```

```
            break
```

```
        if choice in ['1', '2', '3', '4']:
```

```
num1 = float(input("Enter first number: "))
```

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

```
if choice == '1':
```

```
    result = num1 + num2
```

```
    print(f"Result: {num1} + {num2} = {result}")
```

```
elif choice == '2':
```

```
    result = num1 - num2
```

```
    print(f"Result: {num1} - {num2} = {result}")
```

```
elif choice == '3':
```

```
    result = num1 * num2
```

```
    print(f"Result: {num1} * {num2} = {result}")
```

```
elif choice == '4':
```

```
    if num2 != 0:
```

```
        result = num1 / num2
```

```
print(f"Result: {num1} / {num2} = {result}")
```

```
else:
```

```
print("Error! Division by zero is not allowed.")
```

```
else:
```

```
print("Invalid input! Please enter a number between 1 and 5.")
```

```
calculator()
```