

Solution for Simple Calculator.

Here is the Python program for the Simple Calculator, which demonstrates basic Python concepts.

```
def calculator():
    num1 = float(input("Enter the first number: "))
    num2 = float(input("Enter the second number: "))
    operator = input("Enter the operator (+, -, *, /): ")

    if operator == '+':
        result = num1 + num2
    elif operator == '-':
        result = num1 - num2
    elif operator == '*':
        result = num1 * num2
    elif operator == '/':
        if num2 == 0:
            print("Error: Division by zero")
            return
        else:
            result = num1 / num2
    else:
        print("Invalid operator")
        return

    print("Result:", result)

calculator()
```

Sample Output:-

1. Enter the first number: 5
Enter the second number: 9
Enter the operator (+, -, *, /): *
Result: 45.0

2. Enter the first number: 65
Enter the second number: 0
Enter the operator (+, -, *, /): /
ERROR!
Error: Division by zero

Explanation:

1. User Input: The program prompts the user to enter two numbers and an operator.
2. Operation Selection: The `if-elif-else` statements determine the chosen operation based on the input operator.
3. Calculation: The appropriate arithmetic operation is performed using the specified operator.
4. Error Handling: If necessary, the code checks for division by zero and displays an error message.
5. Output: The calculated result is printed to the console.