

LAB MANUAL

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Lab no 08

➤ Task 1: Function-based Calculator (+ and - only)

```
def calculator(a, b, operator):  
    if operator == '+':  
        return a + b  
    elif operator == '-':  
        return a - b  
    elif operator == '*':  
        return a * b  
    elif operator == '/':  
        if b != 0:  
            return a / b  
        else:  
            return "Error: Division by zero"  
    else:  
        return "Invalid operator"  
  
# Example usage:  
num1 = float(input("Enter first number: "))  
num2 = float(input("Enter second number: "))  
op = input("Enter operator (+, -, *, /): ")  
  
result = calculator(num1, num2, op)  
print("Result:", result)
```

Output:

```
Enter first number: 10
Enter second number: 5
Enter operator (+, -, *, /): +
```

```
Result: 15.0
```

➤ Task 2: Function to print star shapes (triangle or rectangle).

```
def draw_shape():
    shape = input("Enter shape (triangle/rectangle): ").lower()
    if shape == "triangle":
        for i in range(1, 6):
            print("*" * i)
    elif shape == "rectangle":
        for i in range(4):
            print("*" * 6)
    else:
        print("Invalid shape.")
```

Output:

```
*
**
***
****
*****
```