

```

a = 10
b = 5

print("Addition:", a + b)
print("Subtraction:", a - b)
print("Multiplication:", a * b)
print("Division:", a / b)
print("Modulus:", a % b)
print("Exponentiation:", a ** b)
print("Floor Division:", a // b)

```

```

↔ Addition: 15
    Subtraction: 5
    Multiplication: 50
    Division: 2.0
    Modulus: 0
    Exponentiation: 100000
    Floor Division: 2

```

```

a = 10
print("a =", a)

a += 5
print("a += 5 ->", a)

a -= 3
print("a -= 3 ->", a)

a *= 2
print("a *= 2 ->", a)

a /= 4
print("a /= 4 ->", a)

a %= 3
print("a %= 3 ->", a)

a //= 2
print("a //= 2 ->", a)

a **= 2
print("a **= 2 ->", a)

```

```

↔ a = 10
  a += 5 -> 15
  a -= 3 -> 12
  a *= 2 -> 24
  a /= 4 -> 6.0
  a %= 3 -> 0.0
  a //= 2 -> 0.0
  a **= 2 -> 0.0

```

```

a = 10
b = 4

print("AND:", a & b)
print("OR:", a | b)
print("XOR:", a ^ b)
print("NOT:", ~a)
print("Left Shift:", a << 1)
print("Right Shift:", a >> 1)

```

```

↔ AND: 0
  OR: 14
  XOR: 14
  NOT: -11
  Left Shift: 20
  Right Shift: 5

```

```

a = 10
b = 15
c = 7

```

```
greatest = max(a, b, c)
print("The greatest number is:", greatest)
```

↵ The greatest number is: 15

```
import math
```

```
radius = float(input("Enter the radius of the circle: "))
area_circle = math.pi * radius ** 2
print("Area of the circle is:", area_circle)
```

↵ Enter the radius of the circle: 2  
Area of the circle is: 12.566370614359172

```
base = float(input("Enter the base of the triangle: "))
height = float(input("Enter the height of the triangle: "))
area_triangle = 0.5 * base * height
print("Area of the triangle is:", area_triangle)
```

↵ Enter the base of the triangle: 2  
Enter the height of the triangle: 3  
Area of the triangle is: 3.0

```
length = float(input("Enter the length of the rectangle: "))
width = float(input("Enter the width of the rectangle: "))
area_rectangle = length * width
print("Area of the rectangle is:", area_rectangle)
```

↵ Enter the length of the rectangle: 2  
Enter the width of the rectangle: 3  
Area of the rectangle is: 6.0

```
side = float(input("Enter the side of the square: "))
area_square = side ** 2
print("Area of the square is:", area_square)
```

↵ Enter the side of the square: 2  
Area of the square is: 4.0