```
a=12
b=21
print("ADD:", a+b)
print("Subtract:", a-b)
print("Multiplication:", a*b)
print("Division:", a/b)
print("floor division:", a//b)
print("Modulus:", a%b)
```

```
ADD: 33
Subtract: -9
Multiplication: 252
Division: 0.5714285714285714
floor division: 0
Modulus: 12
```

Start coding or generate with AI.

```
#Question 2
x = 5
x += 3  # x = x + 3
print("x after += 3:", x)

x -= 2  # x = x - 2
print("x after -= 2:", x)

x *= 4  # x = x * 4
print("x after *= 4:", x)

x /= 2  # x = x / 2
print("x after /= 2:", x)
```

```
x after += 3: 8
x after -= 2: 6
x after *= 4: 24
x after /= 2: 12.0
```

```
#Question 3
a = 5  # 0101
b = 3  # 0011

print("Bitwise AND:", a & b)  # 0001
print("Bitwise OR:", a | b)   # 0111
print("Bitwise XOR:", a ^ b)  # 0110
print("Bitwise NOT (~a):", ~a)
```

```
Bitwise AND: 1
Bitwise OR: 7
Bitwise XOR: 6
Bitwise NOT (~a): -6
Left Shift a << 1: 10
Right Shift a >> 1: 2
```

```
#Question 4
a = 45
b = 60
c = 30

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

```
The greatest number is: 60
```

```
#Question 5
radius = float(input("Enter radius of the circle: "))
circle_area = 3.14 * radius ** 2
print("Area of Circle:", circle_area)
```

```
Enter radius of the circle:  3.2
Area of Circle: 32.153600000000004
```

```
#Question 6
base = float(input("\nEnter base of the triangle: "))
height = float(input("Enter height of the triangle: "))
triangle_area = 0.5 * base * height
print("Area of Triangle:", triangle_area)
```

```
Enter base of the triangle:  2.1
Enter height of the triangle:  2.4
Area of Triangle: 2.52
```

```
#Question 7
length = float(input("\nEnter length of the rectangle: "))
width = float(input("Enter width of the rectangle: "))
rectangle_area = length * width
print("Area of Rectangle:", rectangle_area)
```

```
Enter length of the rectangle:  3.2
Enter width of the rectangle:  12.3
Area of Rectangle: 39.36000000000001
```

```
#Question 8
side = float(input("\nEnter side length of the square: "))
square_area = side ** 2
print("Area of Square:", square_area)
```

```
Enter side length of the square:  4.3
Area of Square: 18.49
```

Start coding or generate with AI.