In [ ]:

In [ ]:
```
#Q.1 Write a program for arithmatic operators
a,b=15,20
print(a+b)
```

In [14]:
```
#Q.2 Write a program for assignment operators
a, b = 10, 5
a += b
print(f"After a += b: a = {a}, b = {b}")
```

```
After a += b: a = 15, b = 5
```

In [18]:
```
#Q.3Write a program for Bitwise operators

a = 10
b = 4
print("a & b =", a & b)
```

```
a & b = 0
```

In [20]:
```
#Q.4 Write a program to calculate greatest of three numbers.

num1 = 10
num2 = 25
num3 = 20

# Using ternary operator to find the greatest number
greatest = num1 if (num1 >= num2 and num1 >= num3) else (num2 if num2 >= nu

print("The greatest number is:", greatest)
```

```
The greatest number is: 25
```

In [22]:
```
#1.Calculate the area of a circle.

# Define the value of pi
pi = 3.14159

#take radius from user
radius = float(input("Enter the radius of the circle: "))

# Calculate the area
area = pi * (radius ** 2)

#print the area
print("The area of the circle is:", area)
```

```
Enter the radius of the circle: 5
The area of the circle is: 78.53975
```

In [ ]:
```
#2.Calculate the area of a triangle.

# Input the base and height of the triangle
base = float(input("Enter the base of the triangle: "))
height = float(input("Enter the height of the triangle: "))

# Calculate the area
area = 0.5 * base * height

# Print the area
print("The area of the triangle is:", area)
```

In [ ]:
```
#3.Calculate the area of a rectangle

# Input the length and width of the rectangle
length = float(input("Enter the length: "))
width = float(input("Enter the width: "))

# Calculate the area
area = length * width

# Print the area
print("The area of the rectangle is:", area)
```

In [ ]:
```
#4.Calculate the area of a square.

#Input the length of a side of the square
side = float(input("Enter the side of the square: "))

# Calculate the area
area = side ** 2

# Print the area
print("The area of the square is:", area)
```