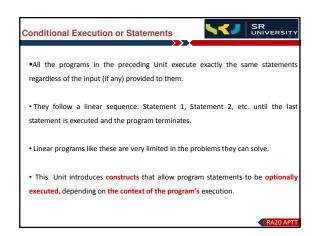
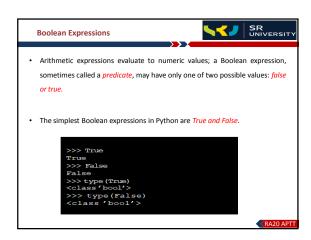


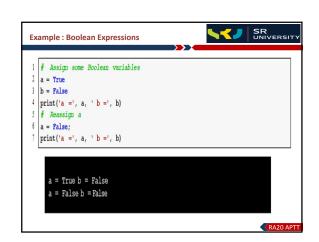
,arbitrary argument , recursion

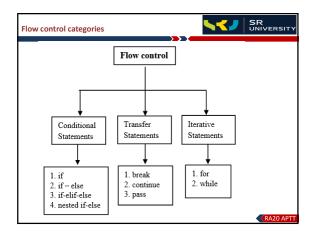














```
Python requires the block to be indented. for example, the following if statement that optionally assigns y

if x < 10:
    y = x
    could be written as
    if x < 10:
    y = x

but may not be written as
    if x < 10:
    y = x

because the lack of indentation hides the fact that the assignment statement is optionally executed. Indentation is how Python determines which statements make up a block.
```

```
# Get two integers from the user
dividend, divisor = eval(input('Please enter two numbers to divide: '))
# If possible, divide them and report the result
if divisor != 0:
    quotient = dividend/divisor
    print(dividend, '/', divisor, "=", quotient)
print('Program finished')

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```

```
The if/else Statement

The if statement has an optional else clause that is executed only if the Boolean condition is false.

# Get two integers from the user dividend, divisor = eval(input('Please enter two numbers to divide: '))

# If possible, divide them and report the result if divisor != 0:
    print(dividend, '/', divisor, "=", dividend/divisor)
else:
    print('Division by zero is not allowed')

Please enter two integers to divide: 32, 0
Division by zero is not allowed
```

```
value = eval(input("Please enter an integer in the range 0...5: "))
if value < 0:
    print("Too small")
else:
    if value = 0:
        print("sero")
else:
    if value = 1:
        print("one")
else:
        if value = 3:
            print("thoo")
        else:
        if value = 3:
            print("thee")
        else:
        if value = 4:
            print("four")
        else:
        if value = 5:
            print("four")
else:
        if value = 5:
            print("four")
else:
        if value = 5:
            print("four")
else:
        if value = 5:
            print("four")
else:
        if value = 5:
            print("four")
else:
        if value = 5:
        if va
```

```
value = eval(input("Please enter an integer value in the range 0...10: ")

if value >= 0:  # First check

if value <= 10:  # Second check

print("In range")

print("Done")

x, y, z = eval (input("Enter Three Numbers: "))

if x > y:
    if x > z:
        print("X is Greater")

else:
    print("X is Greater")

else:
    print("Y is Greater")

else:
    print("X is Greater")

else:
    print("X is Greater")
```

