Day 3:

1. operators:

a = 10, b = 3

(+) - Addition Print (f" Addition : {a+b}")

(-) - Subtraction

* - multiplication

/ - division (float)

// - floor division

% - Modulus (remainder)

** - Exponential.

2. Comparison operators: return True (or) False.

== - Equal to

!= - Not equal to

> - Greater than

< - lesser than

>= - Greater than or equal to

<= - less than or equal to

3. logical operators:

and - True, if both conditions true

or - True, if atleast one condition is

not - reverses the result.

: {a+b}")

4. Assignment operators:

=	x = 10
+=	x = x + 3
-=	x = x - 3
*=	x = x * 3
/=	x = x / 3
//=	x = x // 3
%=	x = x % 3
**=	x = x ** 3

5. Identity operators:

is - returns True, if both are same object

is not - returns True, if both variables do not refe

False

to the same objec

6. membership operators:

in : returns True, if a value exists in the sequence

not in : returns True if a value does not exist in the sequence.

7. Bitwise operators:

& - AND

| - OR

^ - XOR

~ - NOT

<< - left shift

>> - right shift

True

ndition is true

Conditional Statements:

- allows a program to make decisions
execute specific code based on conditions.
- They help to control the flow of a program

Types:

1. if Statement
   Code to execute if condition is True.

```
age = 18
if age >= 18
    print ("Eligible to Vote")
```

2. if else:
   if condition is True, else!
   else, if condition is false.

3. if - elif - else:

```
if condition 1:
    Code if condition 1 is True,
elif condition 2:
    Code if condition is True, el
else: Code if condition is false.
```

4. Nested if:
   An if statement inside another if statement is called nested if.

a Program.

Syntax:

if condition 1:

if condition 2:

code if both conditions are True

What are the rules to declare a variable in python?

1. Start with letter (or) underscore
2. no spaces
3. can contain letters, numbers, underscores
4. case sensitive
5. cannot be a python keyword.

keyword in python:

- Reserved word that has a special meaning. and cannot be used as an identifier.

To find keyword in python:

```
import keyword
Print (keyword.kwlist)
Print len ((keyword.kwlist))
```