Conditional Statements kya hai?

Python mein conditional statements ka use karke hum program ko decisions lene ke liye tayar karte hain. Yeh statements conditions ko check karte hain aur uske hisaab se alag-alag code blocks execute hote hain.

Conditional statements ke types

1. if statement
2. if-else statement
3. if-elif-else statement
4. Nested if statement

- if statement: Jab tumhe ek condition ko check karna hota hai, aur agar woh condition True ho toh koi action lena hota hai, toh hum if statement use karte hain.

Syntax

```
if condition:
    # Action to be performed if condition is true
    pass # yahan par koi action nahi hai, bas yeh statement rahegi
```

Example

```
age = 18
if age >= 18:
    print("Aap vote de sakte ho!")  # Ye message tab print hoga agar age 18 ya uzyada hai
```

- Agar condition false ho, toh else block execute hota hai.

Syntax:

```
# Agar condition true hai toh if block execute hoga
# Agar false hai toh else block execute hoga
if condition:
    # Action to be performed if condition is true
    pass
else:
    # Action to be performed if condition is false
    pass
```

Example

```python
age = 16
if age >= 18:
    print("Aap vote de sakte ho!")
else:
    print("Aap vote nahi de sakte!")  # Yeh message tab print hoga agar age 18 se kam hai
```

- Agar multiple conditions ko check karna ho, toh hum elif ka use karte hain.

Syntax:

```python
# Multiple conditions ko check karna
if condition1:
    # Action for condition1
    pass
elif condition2:
    # Action for condition2
    pass
else:
    # Action for all false conditions
    pass
```

Example

```python
age = 20
if age < 18:
    print("Aap vote nahi de sakte!")
elif age == 18:
    print("Aap pehli baar vote de sakte ho!")
else:
    print("Aap vote de sakte ho!")  # Yeh message tab print hoga jab age 18 se zyada ho
```

- Jab ek if statement ke andar dusra if statement ho, tab usse nested if statement kaha jata hai.

Syntax:

```python
# Agar bahar wala if condition true hai, toh andar ka if check hoga
if condition1:
    if condition2:
        # Action for condition2
        pass
```

Example

```python
age = 25
if age >= 18:
    if age >= 21:
        print("Aap adult ho aur drink kar sakte ho!")
        # Yeh tab print hoga agar age 21 ya usse zyada hai
    else:
        print("Aap adult ho lekin drink nahi kar sakte!")
        # Yeh tab print hoga agar age 18 se 20 ke beech hai
```

Important Points:

- Python mein indentation kaafi important hai. Har conditional block ke andar ka code ek level andar likha jata hai.
- Condition ke andar comparison operator (==, !=, <,>, <=,>=) aur logical operators (and, or, not) ka use hota hai.