

Python — Chapter 3: Conditional Statements (If, Else, Elif, Logical Operators)

1) Conditional Statements kya hain?

Conditional statements ka use decision making ke liye hota hai. Program ko situation ke hisaab se alag-alag actions karne hote hain. Jaise real life mein: Agar barish ho rahi hai toh chhata le jao, warna nahi.

2) If Statement

'if' ka matlab hai: agar condition True hai toh kuch kaam karo.

3) Else Statement

'else' ka matlab hai: agar upar wali condition False ho gayi, toh yeh kaam karo.

4) Elif Statement

'elif' = else + if. Matlab agar pehli condition false hai, toh doosri condition check karo.

5) Logical Operators

Logical operators multiple conditions ko combine karne ke liye use hote hain:

- and → dono conditions True honi chahiye.
- or → koi ek condition True ho toh chalega.
- not → condition ko ulta kar deta hai (True → False, False → True).

6) Importance

Conditional statements se program intelligent banta hai. Ye decide karta hai ki kis situation mein kya karna hai.

Practice Set — Chapter 3 (Conditional Statements)

Q1. Real life ka ek example do jahan tum 'if' condition use kar sakte ho.

Q2. Fill in the blanks:

- a) Agar condition True ho toh _____ block execute hota hai.
- b) Agar condition False ho toh _____ block execute hota hai.
- c) Multiple conditions check karne ke liye _____ use karte hain.

Q3. Kya output hoga agar:

- a) Condition = True, aur sirf if block likha hai?
- b) Condition = False, aur sirf if block likha hai?

Q4. Logical operators ka use karke ek daily life example likho (without code).

Q5. Difference explain karo:

- a) if vs else
- b) elif vs multiple if
- c) and vs or operator

Q6. Ek scenario socho: Agar student ke marks 33 se kam hain toh 'Fail', agar 33 se upar aur 75 se neeche hain toh 'Pass', aur agar 75 ya usse zyada hain toh 'Distinction'. Is scenario ko conditional statements ke saath samjhao (concept only, no code).