

Condition In Python

Conditions allow you to execute certain pieces of code based on whether a condition is true or false. In python this is often done using **if**, **elif**, and **else** statements. Here is the rule on how to write conditions:

```
if condition:
    # code to execute if condition is true
elif another_condition:
    # code to execute if another_condition is true
else:
    # code to execute if none of the above conditions are true
```

Example 1: Checking Temperature

This program finds what you should wear based on the temperature.

```
if temperature > 25:
    print("It's hot outside! Wear shorts and a t-shirt.")
elif 15 <= temperature <= 25:
    print("It's a pleasant day! Wear jeans and a t-shirt.")
else:
    print("It's cold outside! Wear a jacket.")
```

Example 2: Checking Age for Movie Tickets

This program checks if a person is eligible for a child, adult, or senior movie ticket.

```
age = 70

if age < 13:
    print("You are eligible for a child ticket.")
elif 13 <= age <= 59:
    print("You are eligible for an adult ticket.")
else:
    print("You are eligible for a senior ticket.")
```

Example 3: Grade Evaluation

This program assigns a grade based on a student's score

```
score = 85

if score >= 90:
    grade = 'A'
elif score >= 80:
    grade = 'B'
elif score >= 70:
    grade = 'C'
elif score >= 60:
    grade = 'D'
else:
    grade = 'F'

print(f"The student's grade is: {grade}")
```

Points To Remember

- Use **if** to start a conditional statement.
- Use **elif** (short for "else if") to add additional conditions.
- Use **else** to specify what to do if none of the previous conditions are met.

Challenge 11

Write a program that checks if a number is even or odd.