

# Python Conditionals & Loops - Practice Set

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This practice set is based on the topics we've covered so far:

**If-Else Conditional Statements, Match Case Statements, For Loops, While Loops, and Break/Continue/Pass Statements.**

Use these exercises to practice and solidify your understanding.

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## 1. If-Else Conditional Statements

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1. Write a program that asks the user for a number and prints whether it is **positive, negative, or zero**.
  2. Create a program that checks if a person is eligible to vote (age  $\geq 18$ ).
  3. Write a program that takes a number from the user and prints "Even" if it is even, otherwise "Odd".
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## 2. Match Case Statements

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1. Ask the user to enter a day number (1–7) and print the corresponding day of the week using `match case`.
  2. Write a program using `match case` that simulates a simple calculator.
    1. Ask the user for two numbers and an operation (+, -, \*, /).
    2. Perform the operation using `match case`.
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### 3. For Loops

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1. Print numbers from **1 to 10** using a `for` loop.
2. Print the multiplication table of a number (entered by user).
3. Calculate the sum of all numbers from 1 to 100 using a `for` loop.
4. Print the following pattern using a `for` loop:

```
*  
**  
***  
****
```

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### 4. While Loops

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1. Print numbers from **1 to 10** using a `while` loop.
2. Write a program that keeps asking the user to enter a password until they enter the correct one.
3. Use a `while` loop to reverse a given number (e.g., 123 → 321).

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### 5. Break, Continue, and Pass Statements

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1. Use a `for` loop to print numbers from 1 to 10, but stop the loop if the number is 7 (use `break` ).
2. Print numbers from 1 to 10, skipping the number 5 (use `continue` ).
3. Write a loop that goes through numbers 1 to 5, but does nothing for number 3 (use `pass` ).