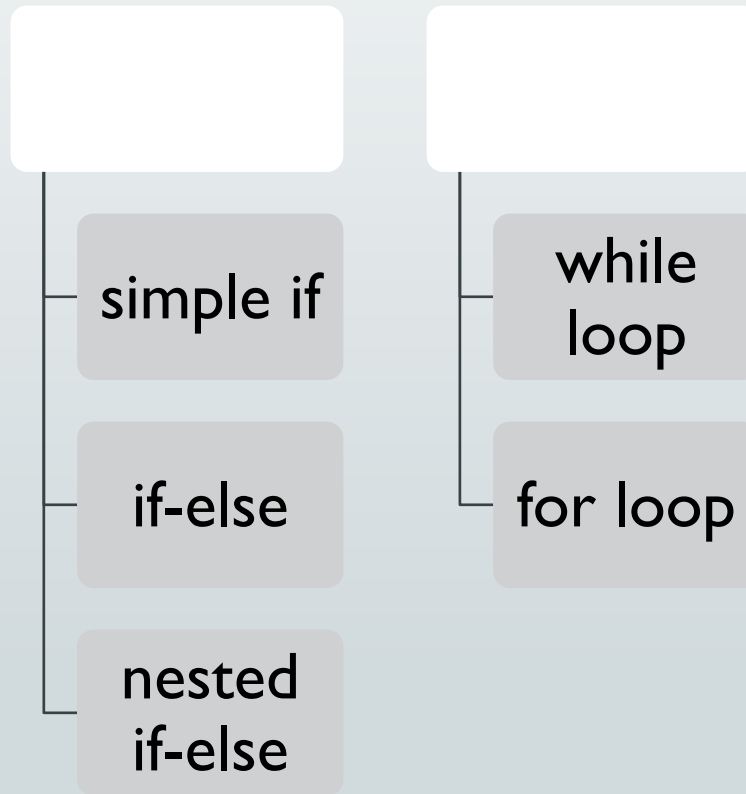


Python

decision making & loops controls

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Making decisions and loop control



simple if

- Syntax:

- `if <condition true>:`
 any task

Note:
keywords are
case-sensitive

Notations:
■ keywords

A condition can be any logical expression returning only one of these two Boolean values: either `True` or `False`

- WAP to read two numbers from a user and print a suitable message if first number is greater than second number.

if-else

- Syntax:

- **if** <condition true>:

task-1

- **else:**

task-2

Notations:

 keywords

WAP to read two numbers from a user and print a suitable message if first number is greater than second number otherwise, ask to re-enter the numbers again such that the first number should be greater than the second number.

Nested if-else

- Syntax:

- **if** <condition-1 true>:
 task-1
- **elif** <condition-2 true>:
 task-2
- ..
- **else**:
 default task

Notations:

 keywords

1. WAP to check if a number is even or odd.
2. WAP to assign grades to the student based on the scores obtained in the exam. The grades are allocated as follows:

Grade 'A' if scores between 90-100

Grade 'B' if scores between 80-89

Grade 'C' if score between 70-79

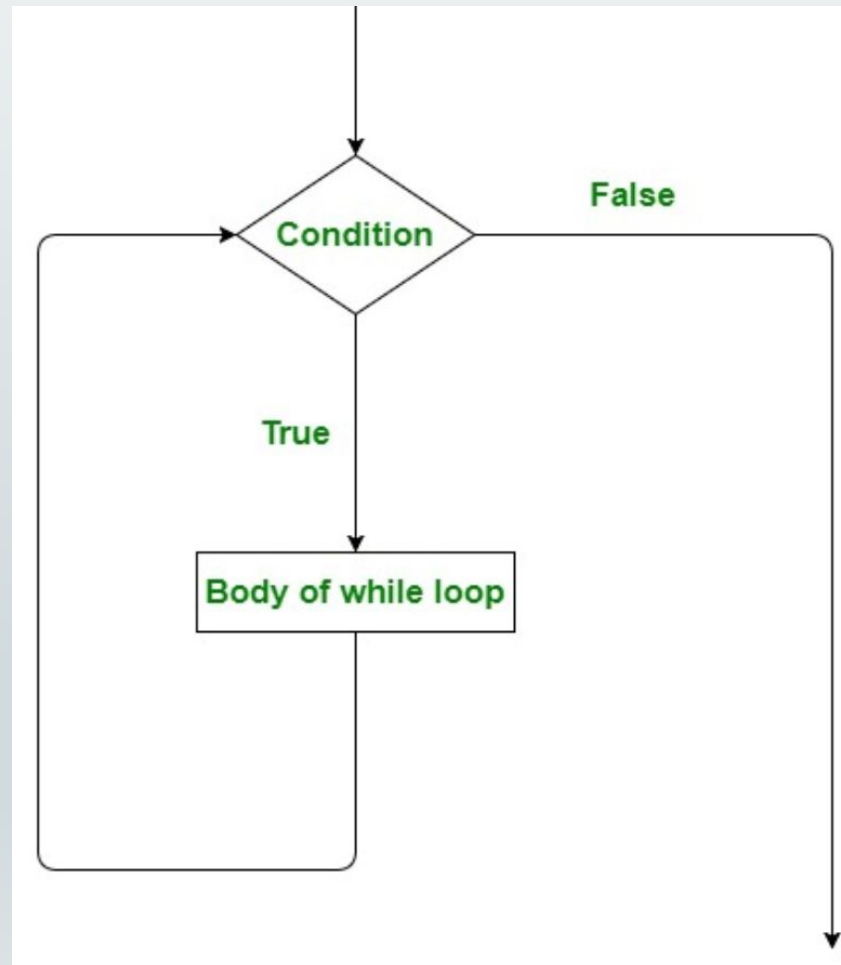
Grade 'D' if score between 60-69

Grade 'E' if score between 50-59

Otherwise, Grade 'F'

3. Design a basic calculator program which takes minimum three inputs (2 operands and an operator) from the user to perform addition, subtraction, multiplication, division and modulo.

Structure of loop




for-loop

- Syntax:

```
for <condition true>:  
    task
```

- OR

```
for <condition true>:  
    Task-1  
else:  
    Task-2
```

Notations:
 keywords

WAP to print each value in the given list:

while-loop

- Syntax:

```
while <True>:  
    task
```

Notations:
■ keywords

Print i as long as i is less than n;

Break and continue

- 'break' exits innermost loop while, 'continue' stops current iteration and continues with the next.

1. WAP to add from 1-100 and display final result.
2. WAP to display numbers from 1-10 except number 7.
3. WAP to read integers 1-10 from user and break the loop immediately if user enters anything other than integer.