Control Statements

Control statements are used to control the flow of execution of program.

These control statements are classified into 3 categories

- 1. Conditional Control Statements
 - a. If
 - b. match
- 2. Looping Control Statements
 - a. While
 - b. for
- 3. Branching Statement
 - a. Break
 - b. Continue
 - c. Return
 - d. Pass (Not a branching statement)

Conditional Control Statements

Conditional control statements are used to execute block of statements based on condition or selection.

These conditional control statements are two types

- 1. If
- 2. Match

If statement

if statement is used to execute block of statements based on condition.

- 1. Simple if
- 2. If..else
- 3. If..elif..else (if..else ladder)
- 4. Nested if

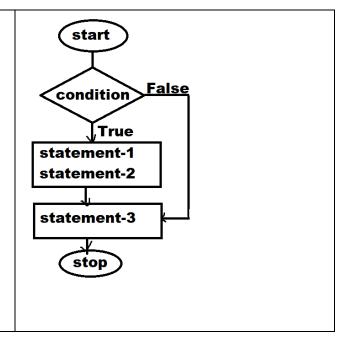
Simple if

"if" without else is called simple if

Syntax:

if <condition>:
 statement-1
 statement-2
statement-3

if condition is True, PVM executes statement-1, statement-2 and statement-3 if condition is False, PVM executes statement-3



"pass" keyword

Empty blocks are not allowed in python.

A block must have one statement.

"pass" is keyword used for representing empty blocks.

"pass" keyword do nothing (OR) it acts like a place holder.

Example:	Output
if 10>5: print("Hello")	Hello Bye Python
print("Bye")	.Net Oracle
if 10>20: print("Java")	
print("Python")	
if 10>5:	
pass	

print("Oracle")

Note: all the statements inside the block must be at same indentation level.

Example:

Banking Application (withdraw)

accno=int(input("Account No :"))
balance=float(input("Balance :"))

tamt=float(input("Amount to Withdraw:"))
if tamt>=50000:
 print("Input PAN Details")

if tamt<balance:
balance=balance-tamt

print("AccountNo ",accno)
print("Balance ",balance)

Output

Account No:1 Balance:90000

Amount to Withdraw:50000

Input PAN Details AccountNo 1 Balance 40000.0

If..else

This syntax define 2 blocks

- 1. if block
- 2. else block

Syntax:

If <condition>:

Statement-1

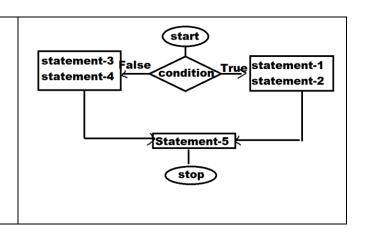
Statement-2

else:

Statement-3

Statement-4

Statement-5



If condition is True, PVM executes Statement-1, Statement-2 and Statement-5

If condition is False, PVM executes statement-3, statement-4 and Statement-5

Example:	Enter Age of the Person 20
# Write a program to check	Eligible to Vote
whether a person is eligible to	
voting or not	Enter Age of the Person 15
	Not Eligible Vote
age=int(input("Enter Age of the	
Person "))	
if age>=18:	
print("Eligible to Vote")	
else:	
print("Not Eligible Vote")	
# Write a program to check	Enter Number 6
whether a input number is even	6 is even
or odd	
	Enter Number 9
num=int(input("Enter Number"))	9 is odd
if num%2==0:	
print(num,"is even")	
else:	
print(num,"is odd")	
# Write a program to check	Enter any number 21
whether a input number is	21 is divisible with 7
divisible by 7	
	Enter any number 20
	20 is not divisible with 7
num=int(input("Enter any number	

")) if num%7==0: print(num,"is divisible with 7") else: print(num,"is not divisible with 7")	
Example:	Output
# Write a program to check whether a input year is leap or not	Enter Year 2000 2000 leap
year=int(input("Enter Year"))	Enter Year 2001 2001 not leap
<pre>if (year%4==0 and year%100!=0) or (year%400==0): print(year,"leap") else: print(year,"not leap")</pre>	Enter Year 2004 2004 leap