Data Science & Artificial Intelligence

Python For Data Science

Basics Of Python



Lecture No.- 06

Recap of Previous Lecture









- Operator Precedence and Associativity

Topics to be Covered











- Iterative
- Jumping.







Conditional (or) Selection (or) Decision Making Statements

if, if-else, if-elif, if-elif-else, martch-case

EX:1

if Expression: Statement

else:

Expression:

Statement - TRUE

0=5 b=7 if aveb: Print (a) 1 #5

a=5 Ex: 2 b= 7 if acb: Print (a) Print (b) /

a=5 6=7 if acb: Print (a) else: Print (b)

#5





Nested-if

if Expression 1:

If Expression 2:

If Expression 3:

Statement

Ex:

Expl.	Expa	ध्युउ
F	F	F
F	F	T
F	1	F
F	T	T
7	F	F
1	F	I
I	T	E
T	T	T

Statement (s) Executed Strot F Strot F



Ex:

Topic: Control Statements in Python - 2



Nested	if-else

Strot A

if Exp2:

Stmt B

else:

Strot C

else:

Stmt D

if Exp3:

Stmt E

Clse:

Stmt G



a = int (input ()) Ex: b= int (input()) c = int (Input ()) Print (Banana) if acc: Point (Orange else: Print (apple 1 else: Print (Guava)

if acb:
Print ('Parpaya')
else:
Print ('Mango')
else:
Rint ('Grapes')

```
Banana apple
    3
           Banana apple
   14 11
15
           Grava Grapes
10 20 30
           Guava Chiku Papaya
           Banana Orange
```





Print (b)

NOTE:





$$a=1, b=2, c=3$$
 $a=10, b=7, c=5$
 $a=10, b=10, c=15$
 $a=20, b=10, c=30$
 $a=20, b=10, c=30$





match-Case

Syntax:

match (Expression):

Case option:

1 Statement (S)

Case option:

Statement (s)

(# default Cage) (Cage : Statement (s)

(1) Expression is Evaluated, regult is compared with Each Case in order (first Gue to bust) Until match is found. Then only matched age strot(s) will be executed. If No match is found, Then Default case (case _-) Execute

(2) Duplicate cases are allowed. The first matched case will be Executed.

(3) Cases can be

(3) All datastypes are valid for Cases. (String, int, float)

(4) défault case always optional

(5) Cases can be

'in random order.

(6) Coses can be of

Non-Contiguous

(1) Casey Can be g Mixed type



Ex:
a= ent (enput ())
moutch(au):
Case 3: Print ('BLUE')
(age -1: Print ('Black')
Case d':
Print (1 Yellow) Case 65:
Print ('Obange')
Cage:

Unicade Values

$$|A| = 65$$
 $|a| = 97$
 $|a| = 32$
 $|a| = 48$





2 mins Summary



start stop

Younge (Start, Stop, Step)

default=0 default=1

for i in range (a, 5):

Print (1411)

Iterative Control Statements (Iteration == Repetition == Loop)

while loop, for loop

While Expression: Statement(s)

#Statement that makes

Expression False (Optional)

but secommeded to keep.

a= \$ 3/1

while a>1:

Ex:

Point (Hai')

a=a-2

Hai

for var in collection (or) Limit: statement(s)

Ex: for i in range (5):

Print ('Hi')

i=0 Hi

x=1 #i

起 就

1=4 #1

for 8 in range (10 1 2).

for x in range (10, 1, -3):

Point (14i1)

X=10 #i

X=7 #i

Z=4 #i



#NOTE: DO NOT MISS NEXT CLASS

THANK - YOU