DFor loop

loop is used when you know the exact number of times you want to depeat a block of code. It goes through a sequence (like num ber, lists, strings, etc.).

Syntax :-

- For loop with sequence:-

For var in sequence name: Statements.

- For loop with range: -

For vas in range (start-value, stop value, step): Statement.

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diament.

Eg. For i in range (1,6):

Could print (i) and pad a deplace (1,6)

output.

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2) While Loop

A while loop is used when you don't know how many times you need to sepert. It suns as long as the condition is true.

They may remain still

Syntax:

mitialization :

statements Inc/ Dec

Egii=1
output
while (iz=5):

print (i)

A nested loop means a loop inside another loop used when you need xows of columns (like patterns, table, matrices)

a) for loop inside for loop

gyntax:

for var_a in range ():

for var_b in range ():

Statements of inner loop

Statement of outer loop

Eg:- For i in range (14):
for j in range (1,4):

print (i,j)

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b) While loop inside while loop

Initialization of outer loop):

Initialization of inner loop

while (condition of inner loop):

Statements of inner loop

inc/dec of inner loop

Statements of inner loop

Statements of inner loop

Statements of outer loop

inc/dec of outer loop