

class: VIII

Topic: Chapter 4: Nested for a while in a loop.

Making patterns with Turtle Library

I Answer the following:

1. what is the while-else loop in python?

Ans: A while-else loop executes the while loop as long as its condition is true. When the condition becomes false, the else block is executed.

2. what is the syntax of if-else statement in python?

Ans: if condition:
 Statement
 else:
 Statement

3. What is indentation in python?

Ans: Indentation is the spaces at the beginning of a line of code. It is used to define a block of statements in python.

II Long Answer Questions:

4. Explain the three parts of the range() function - start, stop and step.

Ans: Start: Specifies the starting value of the sequence.

Stop: Specifies the value at which the sequence stops. The Stop value is not included.

Step: Specifies the amount by which the values increase or decrease. Its default value is 1.

Example: range(2, 10, 2)

Here, 2 = Start, 10 = Stop, 2 = Step

5. Write the Syntax for the following:

(a) For loop

for variable in range():
Statement.

(b) while loop

while condition:
Statement

(c) If-else statement

if condition:
statement

else:
statement

III Competency-Based Questions:

1. A Smart sensor check the air for smoke. If smoke is detected, it triggers an alarm; if not, it keeps the system quiet. While conditional is being used here?

Ans: If-else conditional statement.