6. An infinite loop in Java is a loop that runs indefinitely without exiting. Here's an example of how an infinite loop can be declared in Java:

while (true) {

// some code here

}

8. class Calculator:

def add(self, a, b):

return a + b;

def add(self, a, b, c):

return a + b + c;

create a calculator object

calc = Calculator();

# call the add method with two arguments

result1 = calc.add(3, 4);

print("Result with two arguments:", result1);

# call the add method with three arguments

result2 = calc.add(3, 4, 5);

print("Result with three arguments:", result2);

64.In Java, a nested if-else statement is an if-else statement that is embedded inside another if-else statement. The syntax for a nested if-else statement is as follows:if (condition1) {

// code to execute if condition1 is true

if (condition2) {

// code to execute if both condition1 and condition2 are true

} else {

// code to execute if condition1 is true but condition2 is false

}

} else {

// code to execute if condition1 is false

}