Lab 24

Classroom Activity: Java Loop Statements

**1. for Loop:**

The **for** loop is used when you know how many times you want to repeat a block of code.

**Example: Printing Numbers from 1 to 5 using a for loop:**

public class ForLoopExample {

public static void main(String[] args) {

for (int i = 1; i <= 5; i++) {

System.out.println(i);

}

}

}

**2. while Loop:**

The **while** loop is used when you want to repeat a block of code as long as a specified condition is true.

**Example: Printing Numbers from 1 to 5 using a while loop:**

public class WhileLoopExample {

public static void main(String[] args) {

int i = 1;

while (i <= 5) {

System.out.println(i);

i++;

}

}

}

**3. do-while Loop:**

The **do-while** loop is similar to the **while** loop, but it guarantees that the code block is executed at least once, even if the condition is initially false.

**Example: Printing Numbers from 1 to 5 using a do-while loop:**

public class DoWhileLoopExample {

public static void main(String[] args) {

int i = 1;

do {

System.out.println(i);

i++;

} while (i <= 5);

}

}