**Assignment 3**

**Section 2-Guess the output**

**Snippet 1 –**

public class NestedLoopOutput {

public static void main(String[] args) {

for (int i = 1; i <= 3; i++) {

for (int j = 1; j <= 2; j++) {

System.out.print(i + " " + j + " ");

}

System.out.println();

} } }

**Dry run –**

1 1 1 2

2 1 2 2

3 1 3 2

**Snippet 2-**

public class DecrementingLoop {

public static void main(String[] args) {

int total = 0;

for (int i = 5; i > 0; i--) {

total += i;

if (i == 3) continue;

total -= 1;

}

System.out.println(total);

} }

**Dry run –**

It1- total = 0----->0+5=5--🡪4

It2 – total =4---🡪4+4=8🡪 7

It3 – total=7🡪 10

It4 – total=10🡪10+2=12🡪12-1=11

**Final output - 11**

**Snippet 3-**

public class WhileLoopBreak {

public static void main(String[] args) {

int count = 0;

while (count < 5) {

System.out.print(count + " ");

count++;

if (count == 3) break;

}

System.out.println(count);

} }

**Dry run –**

**0 1 2 3**

**Snippet 4 –**

public class DoWhileLoop {

public static void main(String[] args) {

int i = 1;

do {

System.out.print(i + " ");

i++;

} while (i < 5);

System.out.println(i);

} }

**Dry run –**

**1 2 3 4 5**

**Snippet 5 –**

public class ConditionalLoopOutput { public static void main(String[] args) { int num = 1; for (int i = 1; i <= 4; i++) { if (i % 2 == 0) { num += i; } else { num -= i; } } System.out.println(num); } }