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();</pre>
```

```
}
// Guess the output of this nested loop.
```

```
Assignment 03
      Section 02: Guess the Sutput.
     Snippet of
           Public class Nested loop output &
                Public Static Void main (String [] aggs) &
                  for (int i=1) i <=3; i++);
                     for (int j=1); (=2; j++);
                         System. out. Print ( i + "" + j + "");
                       System. out. PrintIncs;
         9 = 01
                            J = 1
        outer loop
                                          gussed output
                           inner Loop
                             3=2
                                           2122
                                           3 132
                             j=2
         9=3
                             1=1
Snippet 02
```

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);
// Guess the output of this loop.
```

Snippet 02 Day Eun: 9=5; total = 0 +5=5; i==3 is fulse; total =5-1=4 1=4 : total = 4+4=8; i==3 false; total = 8-1=7 i=3; t=7+3=10; i==3 true; SkiP i=2; t=10+2=12; — false i t=11=1; t= 11+1=12; - false; t=11 Gussel 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);
// Guess the output of this while loop.
```

Snippet 03 Dry Eun :-Count =0; Prints"0"; cound =0; c==3; sfalce (ocurt =1: Prints "1"; (ound =12; C = = 3 false Count = 3: prints "2"; Count = 2; (==3 true; break guess output :-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);
// Guess the output of this do-while loop.
```

Snippet 04 Dry run: 9 =1: Prints"1"; = 2 1=2 : Prints "2"; =3 1=3 : Prints " 3"; 9=4 9=4: PENTS "4"; 9=5 Print i(5) is false, LOOP Stop output ; -1 2345

Snippet 5:

```
public class ConditionalLoopOutput {
  public static void main(String[] args) {
     int num = 1;
     for (int i = 1; i \le 4; i++) {
        if (i \% 2 == 0) {
          num += i;
        } else {
          num = i;
     System.out.println(num);
// Guess the output of this loop.
```

Snippet 05 i = 1 ! 1.1.2 == 0 false; Num= 1-1=0 9 = 2: 2-1.2 == 0 true; nums 0+2 = 2 0=3:3-1.2==0 false, rum=2-3=-1 0-4:41.2==0 true; nun=-1+4=3

Snippet 6:

```
public class IncrementDecrement {
  public static void main(String[] args) {
     int x = 5;
     int y = ++x - x - + -x + x + +;
     System.out.println(y);
// Guess the output of this code snippet.
```

Snippet ob :-DEY Enn X=5 Y = ++ x - x -- + --x + x++i + +x:x become 6, Extrem 6. x-- : Ecturn 6, then x become 5 - - xx: x become 4 then x returnly x++: Eetven 4 then x become 5 y = 6 - 6 + 4 + 4 = 8output :-

Snippet 7:

```
public class NestedIncrement {
  public static void main(String[] args) {
     int a = 10:
     int b = 5;
     int result = ++a * b---a + b++:
     System.out.println(result);
// Guess the output of this code snippet.
```

Snippet 07:-Dry Eun: a = 10, b=5 Eesult = ++ a * b -- - -- a + b++ ++ a: a be comes 11, Eetvers 11 b -- : Ectorn 5, then b become 4 -- a: a become 10, setuen 10 b++ ; Ectuen 4, then b become 5 Eesult: 11 x 5-10 +4 = 55 -10+4=49 output:

Snippet 08:-Dex Eun - Count = 0 0 1 = 0 - i++ Eetven O, then i become 1 - ++°?; i become 2 : Estren 2 - (aunt +=0-2=-2: (ount =-20 9=2 - i++ : setu 2 then; become 3 - ++ 1: 9 become 4, Eeter 4 - (ount += 2-4 = -2 : Count = -4 output :-

Snippet 8:

```
public class LoopIncrement {
  public static void main(String[] args) {
     int count = 0;
     for (int i = 0; i < 4; i++) {
       count += i++ - ++i;
     System.out.println(count);
  // Guess the output of this code snippet.
```