Question 01:

Sentinel-controlled loop:

```
public class Question01Sentinelcontrolledloop {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int studentCounter = 1;
        System.out.println("Please enter 10 students' Result");
        while (studentCounter != 11) {
            System.out.println("Enter result (1 = pass, 2 = fail. -1 =
exit system): Please enter Student : " + studentCounter + " result : ");
            int result = scanner.nextInt();
                failures += 1;
            studentCounter += 1;
        System.out.printf("Passed: %d%nFailed: %d%n", passes,
            System.out.println("Bonus to instructor!");
            System.out.println("No Bonus");
```

for loop:

```
public class Question01Forloop {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
            System.out.println("Enter result (1 = pass, 2 = fail): ");
            int result = scanner.nextInt();
        System.out.printf("Passed: %d%nFailed: %d%n", passes, failures);
           System.out.println("Bonus to instructor!");
           System.out.println("No Bonus");
```

Question 02

While loop:

```
public class FindtheLargestNumber_whileLoop {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        // create a scanner to obtain units of each saleperson from
    command window

        int counter = 1;
        int largest = 0;
        int number;
        // initialing variables
        //while loop
        while (counter <= 10) {
            System.out.println("Enter SalePerson: " + counter + "'s

units: ");

        int currentNumber = input.nextInt();
        // obtain current units
        number = currentNumber;
        if (number > largest) {
            largest = number;
        }
        // compare current units and largest units, save latest

largest unit in variable [largest]
        counter += 1;
        //increment studentCounter so loop eventually terminates
    }

    System.out.printf("the largest units is %d", largest);
}
```

output:

For loop:

```
public class FindtheLargestNumber ForLoop {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
            System.out.println("Enter SalePerson: " + counter + "'s
units: ");
        System.out.printf("the largest units is %d", largest);
```

output:

```
Enter SalePerson: 1's units:
Enter SalePerson: 2's units:
Enter SalePerson: 3's units:
Enter SalePerson: 4's units:
Enter SalePerson: 5's units:
Enter SalePerson: 6's units:
Enter SalePerson: 7's units:
Enter SalePerson: 8's units:
Enter SalePerson: 9's units:
Enter SalePerson: 10's units:
the largest units is 89
```