

//Q.1

```
public class InfiniteForLoop {  
    public static void main(String[] args) {  
        for (int i = 0; i < 10; ++i) {  
            System.out.println(i);  
        }  
    }  
}
```

//Q.2

```
public class IncorrectWhileCondition {  
    public static void main(String[] args) {  
        int count = 5;  
        while (count > 0 ) {  
            System.out.println(count);  
            count--;  
        }  
    }  
}
```

//Q.3 It Executes in infinite loop the question is wrong

```
public class DoWhileIncorrectCondition {  
    public static void main(String[] args) {  
        int num = 0;  
        do {  
            System.out.println(num);  
            num++;  
        } while (num > 0);  
    }  
}
```

//Q.4

```
public class OffByOneErrorForLoop {  
    public static void main(String[] args) {  
        for (int i = 1; i < 10; i++) {  
            System.out.println(i);  
        }  
    }  
}
```

//Q.5

```
public class WrongInitializationForLoop {  
    public static void main(String[] args) {  
        for (int i = 10; i >= 0; i--) {  
            System.out.println(i);  
        }  
    }  
}
```

//Q.6

```
public class MisplacedForLoopBody {  
    public static void main(String[] args) {  
        for (int i = 0; i < 5; i++) {  
            System.out.println(i);  
            System.out.println("Done");  
        }  
    }  
}
```

//Q.7

```
public class UninitializedWhileLoop {  
    public static void main(String[] args) {
```

```
int count = 0;
while (count < 10) {
    System.out.println(count);
    count++;
}
}
}
```

//Q.8

```
public class OffByOneDoWhileLoop {
    public static void main(String[] args) {
        int num = 1;
        do {
            System.out.println(num);
            num++;
        }
        while (num <= 5);
    }
}
```

//Q.9

```
public class InfiniteForLoopUpdate {
    public static void main(String[] args) {
        for (int i = 0; i < 5; i++) {
            System.out.println(i);
        }
    }
}
```

//Q.10

```
public class IncorrectWhileLoopControl {
    public static void main(String[] args) {
```

```
int num = 10;

while (num > 0) { // Loop continues while 'num' is greater than 0

    System.out.println(num);

    num--;

}

}
```

//Q.11

```
public class InCorrectLoopUpdate {

    public static void main(String[] args) {

        int i = 0;

        while (i < 5) {

            System.out.println(i);

            i++; // Increment 'i' by 1

        }

    }

}
```

//Q.12

```
public class LoopVariableScope {

    public static void main(String[] args) {

        int x = 0; // Declare 'x' outside the loop

        for (int i = 0; i < 5; i++) {

            x = i * 2; // Use 'x' inside the loop

        }

        System.out.println(x); // Now 'x' is accessible here

    }

}
```