1. Write a for loop that prints all the odd integers from 1 to 100, inclusive

```
1  package lab3;
2
3  public class L3_Q1 {
4
5      public static void main(String[] args) {
6
7          for(int i = 1; i <=100; ++i) {
8              if (i%2 == 1) {
9                  System.out.print(i + " ");
10             }
11         }
12     }
13 }
```

Console × Problems Debug Shell Terminal

<terminated> L3_Q1 [Java Application] C:\Users\Hayan\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_15.0.1.v20201027-05

1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89 91 93 95 97 99

2. Write a do…while loop that prints the integers from 10 to 0, inclusive.

```
1  package lab3;
2
3  public class L3_Q2 {
4
5      public static void main(String[] args) {
6
7          int i = 10;
8
9          do {System.out.print(i + " ");
10         --i; }
11         while (i >= 0);
12     }
```

```
Console ×  Problems  Debug Shell  Terminal
<terminated> L3_Q2 [Java Application] C:\Users\Hayan\.p2\
10 9 8 7 6 5 4 3 2 1 0
```

3. Write a for loop that counts from 1 to 5. Use a switch statement to display a letter in the alphabet that corresponds to the number (i.e., 1 is A, 2 is B, etc.).

```java
package lab3;

public class L3_Q3 {

    public static void main(String[] args) {
        for (int i =1; i<=5; ++i) {
            switch (i) {
            case 1:
            System.out.print("A");
            break;
            case 2:
            System.out.print("B");
            break;
            case 3:
            System.out.print("C");
            break;
            case 4:
            System.out.print("D");
            break;
            case 5:
            System.out.print("E");
            break;
            }
        }
    }
}
```

```
Console × Problems Debug Shell Terminal
<terminated> L3_Q3 [Java Application] C:\Users\Hay
ABCDE
```

4. Write a while loop that sums the integers from 1 to 10, excluding 3 and 6. Print the sum.

```java
package lab3;

public class L3_Q4 {

    public static void main(String[] args) {
        int i = 0;
        int sum = 0;
        while (i<10) {
            ++i;
            if (i == 3 || i == 6) {continue;}
            sum += i;
        }
        System.out.printf("Sum is: %d%n",sum);
    }
}
```

```
Console × Problems Debug Shell Terminal
<terminated> L3_Q4 [Java Application] C:\Users\Haya
Sum is: 46
```

5. Write a for loop that attempts to display the numbers from 1 to 10, but terminates when the control variable reaches the value 6.

```
1  package lab3;
2
3  public class L3_Q5 {
4
5      public static void main(String[] args) {
6
7          for (int i =1; i <= 10; ++i) {
8              if (i == 6) {break;}
9              System.out.print(i + " ");
10         }
11     }
12 }
```

Console × Problems Debug Shell Terminal

```
<terminated> L3_Q5 [Java Application] C:\Users\Hayan\.p2\pool\plug
1 2 3 4 5
```

6. Write a for loop to display the numbers from 1 to 10, but skip the value 6 by using a continue statement.

```
1  package lab3;
2
3  public class L3_Q6 {
4
5      public static void main(String[] args) {
6
7          for (int i =1; i <= 10; ++i) {
8              if (i == 6) {continue;}
9              System.out.print(i + " ");
10         }
11     }
12 }
```

```
Console × Problems Debug Shell Termi
<terminated> L3_Q6 [Java Application] C:\Users\H
1 2 3 4 5 7 8 9 10
```

7. Write an <u>if else</u> condition that present a variable num = 120, and the condition will present the larger, smaller or equal than number.

```java
package lab3;
import java.util.Scanner;

public class L3_Q7 {

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);
        System.out.print("Enter a number to compare: ");
        int inp = input.nextInt();

        if (inp > 120)
            System.out.printf("%s is greater than 120",inp);
        else if (inp < 120)
            System.out.printf("%s is less than 120",inp);
        else
            System.out.printf("%s is equal to 120",inp);
    }
}
```