1) HelloWorld Program

```
class helloWorld {
    public static void main(String[] args) {
        System.out.println("hello world");
    }
}
```

Output :

```
C:\Dev\Antwalk Training\Assn 2> javac .\helloWorld.java
C:\Dev\Antwalk Training\Assn 2> java helloWorld
hello world
```

2) Rectangle area

```
import java.util.*;

public class area {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        float length = in.nextFloat();
        float breadth = in.nextFloat();
        System.out.format("The area is %f\n", length * breadth);
        in.close();
    }
}
```

Output :

```
C:\Dev\Antwalk Training\Assn 2> javac .\area.java
C:\Dev\Antwalk Training\Assn 2> java area
4.5
6.3
The area is 28.350000
```

3) Enhanced for loop to find sum of array elements

```java
public class enhancedForLoop {
    public static void main(String[] args) {
        int[] a = { 1, 2, 3, 4, 5 };
        int sum = 0;
        for (int val : a) {
            sum += val;
        }
        System.out.println(sum);
    }
}
```

Output :

```
C:\Dev\Antwalk Training\Assn 2> javac .\enhancedForLoop.java
C:\Dev\Antwalk Training\Assn 2> java enhancedForLoop
15
```

4) Pattern

```java
import java.util.*;;

public class pattern {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);

        int n = in.nextInt();

        for (int i = 0; i < n; i++) {
            for (int sp = 0; sp < i; sp++) {
                System.out.print(" ");
            }
            for (int j = n; j > i; j--) {
                System.out.print("* ");
            }
            System.out.println();
        }

        in.close();
    }
}
```

Output :

```
C:\Dev\Antwalk Training\Assn 2> javac .\pattern.java
C:\Dev\Antwalk Training\Assn 2> java pattern
4
* * * *
 * * *
  * *
   *
```