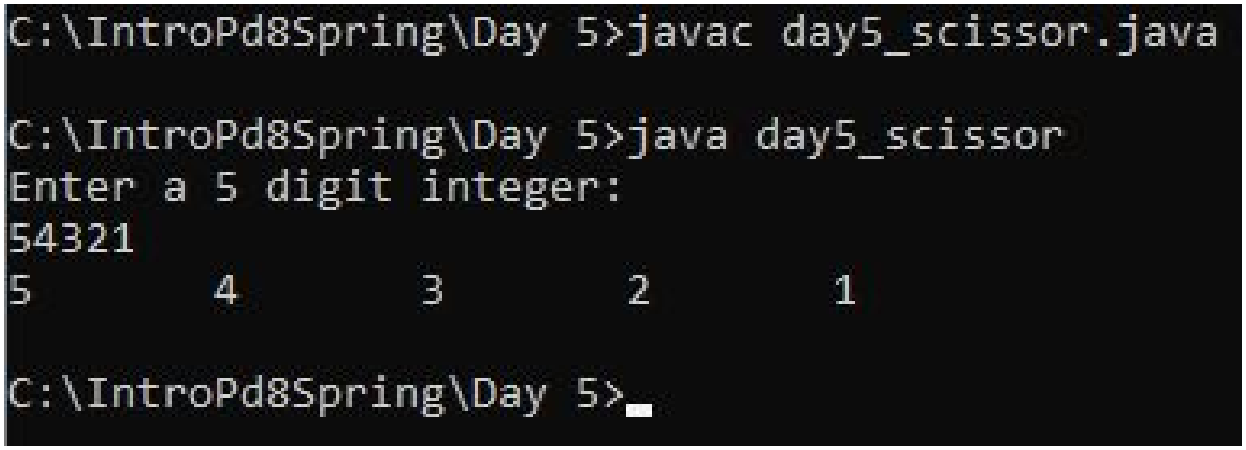
1st Notes

```
//Omkar
//2-10-2020
//Desc: Split up a single five digit integer

import java.util.Scanner;

public class day5_scissor

{

	public static void main(String[] args)

	{

		Scanner input = new Scanner(System.in);

		//Number and types of variables:

		int num; //user input value
		int output1, output2, output3, output4, output5;

		//Ask the user to type in a number

		System.out.println("Enter a 5 digit integer:");
		num = input.nextInt();

		//Calculate individual Digits

		output1 = num / 10000;
		output2 = (num % 10000) / 1000;
		output3 = (num % 1000) / 100;
		output4 = (num % 100) / 10;
		output5 = (num % 10) / 1;

		//Print the results

		System.out.println(output1+"  "+output2+"     "+output3+"     "+output4+"
"+output5);

	}

}
```

Output


C:\IntroPd8Spring\Day 5>javac day5_scissor.java
C:\IntroPd8Spring\Day 5>java day5_scissor
Enter a 5 digit integer:
54321
5 4 3 2 1
C:\IntroPd8Spring\Day 5>

2nd Notes

```
//Omkar
//2-10-2021
//Description: Quadratic Formula Solver

import java.util.Scanner;

public class day5_QuadSolve

{

	public static void main(String[] args)

	{

		Scanner input = new Scanner(System.in);

		//determine variables:

		double a, b, c;
		double discriminant; //b^2 - 4ac
		double x1, x2;

		//ask the user for a,b,c:

		System.out.println("Enter a, b, and c:");

		//allow the user to enter a,b,c:

		a = input.nextDouble();
		b = input.nextDouble();
		c = input.nextDouble();

		//use quadratic formula with a,b,c values:

		x1 = (-b + Math.sqrt(b*b - 4*a*c)) / (2*a);
		x2 = (-b - Math.sqrt(b*b - 4*a*c)) / (2*a);

		//print out results:

		System.out.println("x = "+x1+" and "+x2);

	}
}
```

Output:

```
C:\IntroPd8Spring\Day 5>javac day5_QuadSolve.java

C:\IntroPd8Spring\Day 5>java day5_QuadSolve
Enter a, b, and c:
1 4 3
x = -1.0 and -3.0

C:\IntroPd8Spring\Day 5>
```