

Exercise 1: Control Structures

```
import java.util.Scanner;

public class ControlStructureExercise {

    public static void main(String[] args) {

        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter an integer: ");

        int num = scanner.nextInt();

        if (num > 0) {
            System.out.println("Positive number");
        } else if (num < 0) {
            System.out.println("Negative number");
        } else {
            System.out.println("Zero");
        }

        if (num % 2 == 0) {
            System.out.println("Even number");
        } else {
            System.out.println("Odd number");
        }

        if (num % 3 == 0 && num % 5 == 0) {
            System.out.println("Divisible by both 3 and 5");
        } else {
            System.out.println("Does not meet special conditions");
        }
    }
}
```

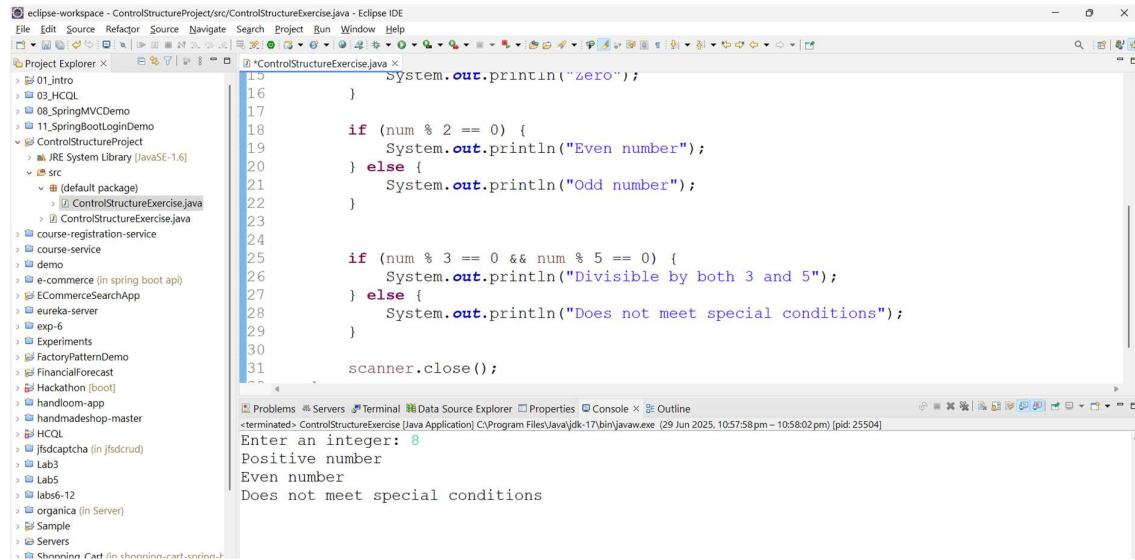
```
}
```

```
scanner.close();
```

```
}
```

```
}
```

OUTPUT:



The screenshot shows the Eclipse IDE interface. The Project Explorer on the left lists various projects, with 'ControlStructureExercise.java' selected. The main editor displays the source code of this file. The code includes a package declaration, imports, and a main method that prompts the user for an integer and checks for divisibility by 2 and 5. The console at the bottom shows the execution output for the input '8'.

```
15      System.out.println("zero");
16  }
17
18      if (num % 2 == 0) {
19          System.out.println("Even number");
20      } else {
21          System.out.println("Odd number");
22      }
23
24
25      if (num % 3 == 0 && num % 5 == 0) {
26          System.out.println("Divisible by both 3 and 5");
27      } else {
28          System.out.println("Does not meet special conditions");
29      }
30
31      scanner.close();
```

Enter an integer: 8
Positive number
Even number
Does not meet special conditions