

# Debugging & Traceability

In this activity you are expected to develop & submit the developed code by testing it.

Debugging and traceability are crucial aspects of developing any software application, including those built on the Salesforce platform. Salesforce provides robust tools for debugging and tracing code, including logging mechanisms and debugging features. Here's an example of how you can incorporate basic debugging and traceability in your Salesforce Apex code:

```
// Class Description: This class demonstrates debugging and traceability in Salesforce
```

```
public class DebuggingAndTraceabilityExample {

    // Method to demonstrate debugging and traceability
    public static void debugAndTraceExample() {
        Integer x = 5;
        Integer y = 10;

        // Use System.debug() to log important information
        System.debug('The value of x is: ' + x);
        System.debug('The value of y is: ' + y);

        // Add custom debug logs for traceability
        logTrace('Custom debug log for traceability');

        // Perform some operations for debugging purposes
        Integer sum = x + y;
        System.debug('The sum of x and y is: ' + sum);

        // Add more debug logs for tracing variable values
        logTrace('The value of sum is: ' + sum);
    }
}
```

```
}
```

```
// Custom method for logging trace information
```

```
private static void logTrace(String message) {
```

```
    // You can use custom objects or Salesforce debug logs for traceability
```

```
    System.debug(message);
```

```
}
```

```
}
```