Task 1:

Good Code vs Bad code:

Good Code:

* Maintains stability
* Readability
* Efficiency
* Good exception handling

Bad code:

* With tight coupling
* Duplications in code
* Magic numbers(hardcoded)
* No optimization

Task2 :

Data binding:

It’s a technique where we connect the data of two or more objects.(when one object changes other will get automatically updated),

It improves the consistency.

Task 3:

What do you know about continuous development?

* Process where development, testing and deployment of a software occur continuously .
* Example: adding extra features to the app.

Task 4:

What are the conditions for polymorphism?

1. Inheritance: There must be a superclass-subclass relationship between the classes.

2. Method Overriding or Overloading: The subclass must override(runtime polymorphism) or overload(compile time polymorphism) methods of the superclass.

3. Upcasting: The subclass object must be referred to using a reference variable of the superclass type.

| Overloading | Overriding |

| Method Name - Same | Same |

| Parameter List -Different | Same |

| Return Type - Can be different | Can be same or subclass |

| Resolution - Compile-time | Runtime |

| Purpose -Provide multiple methods with same name but different parameters | Provide specific implementation of a method in a subclass |

TASK 5:

BDD:

Behaviour driven deployment

-focuses on software application behaviour.

- high level implementation

- team methodology

TDD:

-Test driven deployment

-Focuses on implementation of the feature

-Low level implementation

-development practice

TASK6:

List of tools for manual and automated testing;

Manual Testing Tools:

1. TestRail

2. TestLink

3. Zephyr

4. qTest

Automated Testing Tools:

1. Selenium

2. Appium

3. JUnit

4. TestNG

5. PyUnit

6. Cucumber

7. Robot Framework