Lab 1

1- True or False:

Why is Testing necessary?

1- because software is likely to have faults (True)

2- To learn about the reliability of the software (True)

3- To fill the time between the delivery of the software and the release date (False)

4- To prove that the software has no faults (False)

5- Because testing is included in the project plan (False)

6- Because failures can be very expensive (True)

7- To avoid being sued by customers (True)

8- To stay in business (False)

2- compare between :

1- functional and non-functional testing

FUNCTIONAL	NON-FUNCTIONAL
DEFINING WHAT THE SOFTWARE MUST DO	defining system performance /security availability

2- black box, white box, and gray box

black box	white box	gray box
It is done by end-users and also by the	It is generally done by testers and	It is done by end-users (called user

tester and developers.	developers.	acceptance testing) and also by testers and developers.
This testing has Low granularity.	This testing has high-level granularity.	This testing has a medium level of granularity.
Here, Internals are not required to be known.	Here, the Internal code of the application and database is known.	Here, Internals relevant to the testing are known.

3- What is the SDLC?

the cost-effective and time-efficient process that development teams use to design and build high-quality software. The goal of SDLC is to minimize project risks through forward planning so that software meets customer expectations during production and beyond.

4- What are the Testing levels?

- Unit testing
- Integration testing
- System testing
- Acceptance testing

5- What are the Testing Types?

- Accessibility testing
- Acceptance testing
- Black box testing
- End to end testing
- Functional testing
- Interactive testing
- Integration testing
- Load testing
- Non functional testing
- Performance testing
- Regression testing
- Sanity testing
- Security testing
- Single user performance testing

- Smoke testing
- Stress testing
- Unit testing
- White-box testing

6- [Bouns] search for the difference between TDD and DDD and BDD

TDD	DDD	BDD
focuses on testing the code	focuses on the domain of the software	focuses on the behavior of the software

7- Who does Testing?

- Software Tester
- Software Developer
- Project Lead/Manager
- End User