**Chapter – 8**

**Implementation and Maintenance**

**Implementation:**

Implementation is the stage where the theoretical design is change to the practical system. First, we are going to gather the requirements. Before starting the implementation all, the requirements about your project must know. After the requirements gathering, we are going for the designing stage of our project where we are going to make the theoretical design of our project. We specify all the modules of our project and their relationship between the modules. Once the designing stage is complete then we start the implementation stage. In implementation, we are going to start the coding part of our project. In implementation, we convert the theoretical design of our project to the practical system. It is the most critical stage in which a new system is going to implement for achieving the goal successfully and it will be confirm that the system will work effectively. In this stage, we give the new system to the user or client for practical use.

**Maintenance:**

After implementation stage, the next phase is the maintenance stage. In maintenance, we are going to take care of the system. When the system is given to the client for the practical use, after some times the user find some bugs or the system is not capable to provide the desirable output for the client. The system is going to the maintenance stage. The developer test the system again if it is possible that the bugs are solve in maintenance. If the bugs are not solve in maintenance then the developer again go back to the designing stage. They are working on the designing stage once they fix the error in that stage. After fixing it there then again, the implementation stage is going to start and they bring changes in the system. After completing the implementation the system in given to the client for the practical use. After some time the system will need some updates or upgrade so in maintenance stage all these issues are going to be solve in the future.