Week Number	Software / App Development	Concept Introduction	Technology Used	Functionality Developed
Week 1	Basic Python	Software Installations, GIT concepts, I/O operations, Basic Data Types, Operators for Data manipulation and Comparison, Conditional Statements, Loop Structures, Operations on String Variables, Data Storage Objects, Functions,Importing Modules, File Handling Operations, Exception Handling, Object Oriented Programming	GIT, Python 3.7, Data Structures, OOPS	**Solve:** Solve Basic Core, Logical and Functional problems File Handling - Read and Write operations on CSV, JSON, TXT, etc. files. **Read :** Core Programming & Version Management - exception handling, data structures in python, magic methods, constructor, memory management, python advantages and disadvantages Data Structure - Dictionary,List, Sets, Tuple, Strings, Frozen Set
Week 2	Socket Programming	Socket Programming, MySQL Database	HTTP Requests, MySQL, Socket	**MySQL Database:** **1. Connect MySQL Database to python** **2. Study and perform CURD and join operations** **ChatRoom Application: Build a chatroom application using Socket programming.** **1. Build a chat room application using Socket Programming** **2. Add user data and user chat according to the session into the database**