



Title	1. Exams Management System
Description	A database of Questions and Answers, - Teachers can add, delete or edit exams, and can issue reports for students that contains the exams they took, dates, and grades
Group size	3-4 members
Duration	3 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Eman Bahgat

Title	2. Movie rental management system
Description	- The system should manage movies in the store (add, update, delete movies). - Handles borrowing, returns, issuing warning and then fines for late books,
Group size	3-4 members
Duration	3 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Eman Bahgat

Title	3. Sports management system (football, basketball,...)
Description	-For storing schedule for matches, players and their role, recording results (includes league championship)..... -The system should allow adding, deleting or updating players
Group size	3-4 members
Duration	2 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Eman Bahgat



Title	4. Inventory Management System
Description	- The System is used to track products and parts as they are transported from a vendor to a warehouse, between warehouses, and finally to a retail location or directly to a customer.
Group size	3-4 members
Duration	2 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Yomna Hatem Mohamed

Title	5. Paint Plus
Description	- Paint plus provides you the facility to draw using mouse and save the drawn image into a BMP file which can be read by any other software.
Group size	2 members
Duration	2 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Yomna Hatem Mohamed

Title	6. Payroll system
Description	- The system should store all employees with their data and position in the company and generate the payroll processes according to the salary structure assigned to the employee.
Group size	3-4 members
Duration	2 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Yomna Hatem Mohamed



Title	7. Day Planner
Description	<p>- This project is a sort of personal digital diary which includes schedule of the coming days. It helps to plan and manage the time more efficiently and to determine how you can spend a typical 24 hour- day. User will have a calendar to select date and time to see all the tasks scheduled on that specific day. User will be given option to add more schedules on any day and time.</p> <p>You have to develop a user friendly GUI that displays a calendar. After selecting a specific date, all the scheduled tasks will display there and there must be an option to edit the schedule and these changes must be remain saved in the calendar for future use.</p>
Group size	3-4 members
Duration	2 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Ahd Abd El-Razek

Title	8. Bug Tracking System
Description	<p>Bug tracking systems are a tool used by software developers to enhance the quality of their software products. The automation that bug tracking systems provide allows for efficient monitoring and controlling of reported bugs.</p> <p>Generally bug tracking systems allow developers and testers to add bugs to a database, provide details about the bugs in the database and make updates to the bugs as progress is made. Along with these features there also features that allow bugs to be assigned to specific developers. This allows for developers to use the bug tracking system as a to do list when the development cycle enters a maintenance stage.</p> <p>Finally bug tracking systems allow for the bugs that are entered to be prioritized making critical bugs easier to find in the database. You have to develop a system with GUI that fulfills the above requirements.</p>



Group size	3-4 members
Duration	2 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Ahd Abd El-Razek

Title	9. Sudoku game
Description	<ul style="list-style-type: none"> * Every Sudoku has a unique solution that can be reached logically. * Enter numbers into the blank spaces so that each row, column and 3x3 box contains the numbers 1 to 9. * http://www.websudoku.com/
Group size	2 members
Duration	2 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Mona Sadik

Title	10. Railway Ticket Reservation
Description	<ul style="list-style-type: none"> * The program helps us to enter, display, or alter the details of different trains. * The program allows us to reserve or cancel a train ticket. * Also it helps us to know the present status of a reserved ticket (whether it's confirmed or not).
Group size	2-3 members
Duration	2 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Mona Sadik



Title	11. Car Manufacturing DB system
Description	<p>* This system should keep track of cars and there components (brand - model- engine- doors - glass - color- ...) and the possible engines that can replace the old engine (as each car should have a range of the possible engines' power that can be added to it)</p> <p>* Also the system allows me to add, delete or update car objects, and search with certain specifications and gives me a list with the possible car list that matches what the user is searching for.</p>
Group size	2-3 members
Duration	2 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Mona Sadik

Title	12. Banking accounts
Description	<p>* The Account class is the base class for all accounts, which has an instance variable balance and methods for getting and setting the balance, depositing, withdrawing, and transferring funds.</p> <p>* The Account class has two derived classes, Checking and Savings account.</p> <p>* The Savings account has an instance variable interestRate.</p> <p>* A Checking account has a derived class MoneyMarket while the Savings account has a derived class CertificateDeposit.</p> <p>* The 4 specific account types (not including the base Account class) vary in the way they handle withdrawals.</p> <p>* Withdrawals can be done from basic Checking and Savings accounts without penalty. However, withdrawals from MoneyMarket and CertificateDeposit accounts involve a cost.</p> <p>* For MoneyMarket accounts, each withdrawal costs \$1.50.</p> <p>* For CertificateDeposit accounts, there is a severe penalty for withdrawal: 20% of the amount withdrawn. The "main.cpp" file is used to verify the correctness of the various methods of the four different accounts and to</p>



	<p>serve as a simple demonstration of the functionality of each class.</p> <p>* The system also has a client class and allows me to add, delete or update a client details (including the account)</p>
Group size	3-4 members
Duration	2 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Mona Sadik

Title	13. Hospital Management System
Description	System for managing patients and employees' (nurses, doctors...), registering patients in rooms and scheduling appointments.
Group size	3-4 members
Duration	2 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Nehal Magdy

Title	14. Hotel management system
Description	System for managing Residents, rooms, reservations and employees.
Group size	3-4 members
Duration	2 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Nehal Magdy



Title	15. Transportation management system
Description	System for managing transportations, drivers and schedules for both.
Group size	3-4 members
Duration	2 weeks
Deliverables	C++ Windows form application performs the required system (Data is stored in DB or file)
Mentor	TA. Nehal Magdy