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| **Object Oriented Programming Lab 02** | | | |
| **Course Code:** | COMP-112L | **Class** | CS (B) |
| **Lab Engineer** | Laiba Khalid | **Semester** | 2nd |
| **Lab Title** | C++ Basics & Classes | **Section** | - |
| **Name** |  | **Reg no.** |  |
| **Content Covered** | C++ Basics & Class Implementation. | | |
| **Instructions:**  • Submit the file with your names following your registration numbers like AI001\_Name.  • Submit soft copy of the report before deadline. Marks will be deducted for late submissions. | | | |

**Lab Tasks**

1. Write a C++ program for Bank Management System which have the following functions.
2. Deposit Amount
3. Withdraw Amount
4. Check Balance
5. Exit
   * Use any of the loops to repeatedly display the above menu to the users and allow the user to select any of the operations which he wants to perform.
   * Use switch statements to shift between the options which user want to perform.
   * Design your code in such a way that the loop will terminate when the user selects the exit option.
6. Write a C++ program to allow users to enter two numbers and create a function to swap the data of those number and display the number before and after swapping.
7. Define a structure **Circle** with attribute radius, pass it to a function, and calculate the area if the circle.
8. Write c++ code to define a **Car** class with attributes (brand, model, year) and a method to display car details.
9. Create a simple c++ program to **create a simple calculator** using **C++ classes**. The program will be able to:

* Take two numbers as input.
* Perform addition, subtraction, multiplication, and division using class methods.
* Display the results to the user.