Object Oriented Programming
Assignment # 01

Note:

➢ **Note**: Problem understanding is the part of Assignment. Therefore, first understand the problem statement and then write/draw your logic on paper.

➢ After designing the logic on paper, code the problem statement on any editor (VS Code, Gedit, etc).

➢ Copied tasks will be awarded **zero** marks without any investigation.

➢ Comments your code properly.

➢ Assignment after due date will not be graded.

➢ Assignment should be submitted in a zip file named as 22P-9307_M_Kaif.

➢ The zip file should contain all .cpp files.

● Plagiarism of any shape or form will not be tolerated. In case of plagiarism, the particular question will be marked zero and 50% marks from total obtained marks will be deducted.

Problem: 1 | Bank Management System

You're developing a bank account management system for a financial institution. The system should allow customers to deposit/withdraw funds, and view their account balance. Design a C++ program to implement this functionality using arrays, loops, and functions.

➢ Tasks:

1. Define arrays to store account information such as account number, account holder name, balance, and account type (savings, checking).

2. Implement functions to deposit funds, withdraw funds, display all accounts and view account balances.

3.Overload functions to handle cases where customers deposit or withdraw different amounts of money.

4. Utilize loops to search for specific account records and perform transactions.

5. Ensure that the program handles scenarios where customers attempt to withdraw more funds than available in their account.

Hint:
Create Separate arrays for A/c no, A/c Holder Name and balance etc.

Sample Output:
```
Welcome to Bank Account Management System

1. Open Account
2. Deposit Funds
3. Withdraw Funds
4. Display All Accounts
5. View Account Balance
6. Exit
Enter your choice: 1
Enter Account Number:Kaif
```

Problem: 2 | Quiz

Write a program to keep records and perform statistical analysis for a class of students. The class may have up to 40 students. There are five quizzes during the term. Define a function that will print the maximum, minimum and average for each quiz. Define another function that prints the average of each student, the maximum and the marks he has got in all five quizzes.