

THE HUFFMAN HIGHWAY

ASSIGNMENT 2

Q1. Banking System with OOPS

Using OOPS, make a proper banking system with various Base classes and Derived classes. You should be storing the following details for each account:

- Account Number
- Account Holder's Name
- Address
- Account Type
- Funds
- Past Transaction History
- Past Loan History

Your code should be able to do the following tasks:

- Deposit
- Withdrawal
- Update Account Information
- Joint Accounts
- Loan
- Transferring funds between two accounts
- Viewing passbook
- Searching transaction history by date and amount

Q2. Matrix Multiplication

Make a class Matrix which stores a (m x n) matrix. Make an input function in it. Then make an operator overloading function such that operator '*' multiplies two matrices directly.

Example:

You should ask the user m and n for matrix size. Here, Let m=3 and n=2.

When you define MatA(3,2), your program should ask the user to input 6 integers/floating values. Then, you should define MatB(2,3) and your program should ask for another 6 values.

Now, you should define MatC(3,3) such that MatC= MatA*MatB. Then print the values of MatA, MatB and MatC.

Your int main() code should look like this:

```
int m,n;
cin<<m;cin<<n;
Matrix matA(m,n), matB(n,m), matC(m,m);
matA.input();matB.input();
matC=matA*matB;
matA.print();matB.print();matC.print();
```

**Print proper statements before printing outputs or asking for inputs for better user interface.