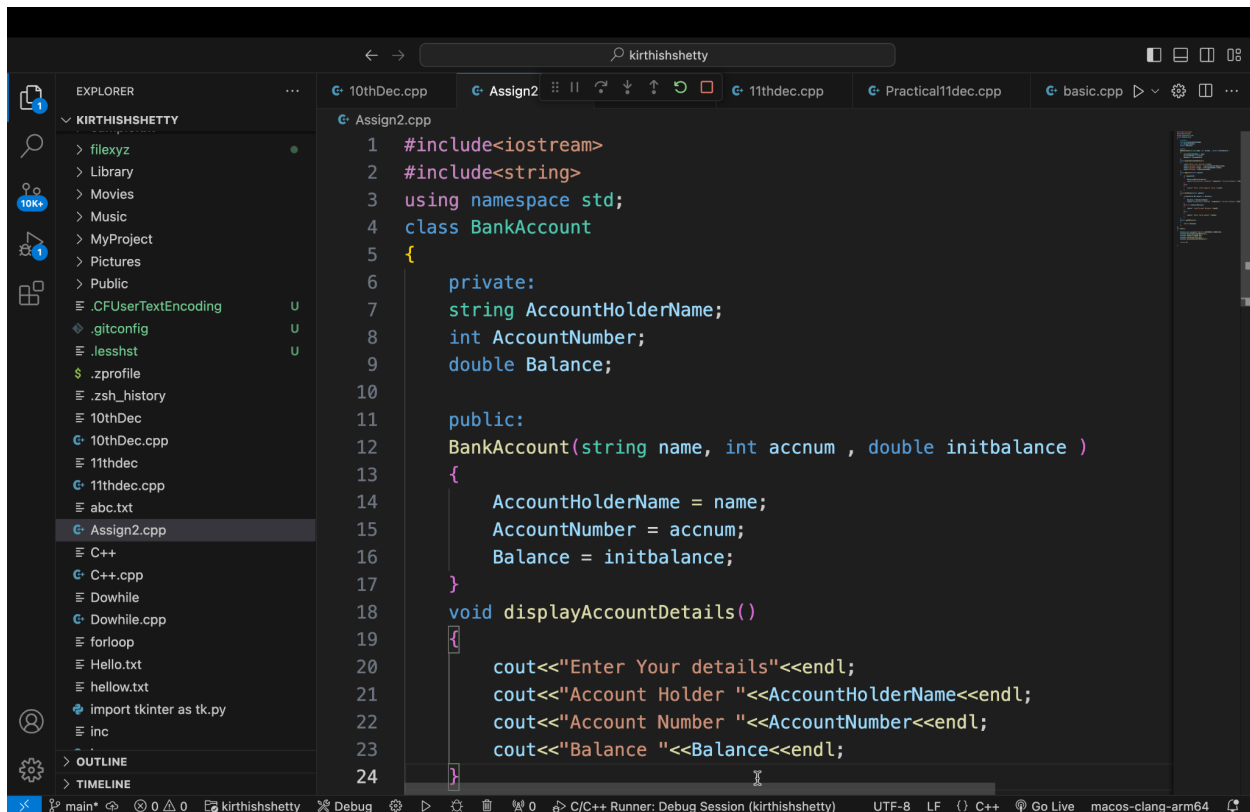


Assignment 2

Design a 'Bank Account' class with basic credit and debit operations in C++ using object oriented programming feature.



The screenshot shows a C++ IDE with a file explorer on the left and a code editor in the center. The file explorer lists various files and folders, including 'filexyz', 'Library', 'Movies', 'Music', 'MyProject', 'Pictures', 'Public', '.CFUserTextEncoding', '.gitconfig', '.lessht', '.zprofile', '.zsh_history', '10thDec', '10thDec.cpp', '11thdec', '11thdec.cpp', 'abc.txt', 'Assign2.cpp', 'C++', 'C++.cpp', 'Dowhile', 'Dowhile.cpp', 'forloop', 'Hello.txt', 'hellow.txt', 'import tkinter as tk.py', and 'inc'. The code editor displays the implementation of the 'BankAccount' class in 'Assign2.cpp'.

```
1 #include<iostream>
2 #include<string>
3 using namespace std;
4 class BankAccount
5 {
6     private:
7         string AccountHolderName;
8         int AccountNumber;
9         double Balance;
10
11     public:
12         BankAccount(string name, int accnum , double initbalance )
13         {
14             AccountHolderName = name;
15             AccountNumber = accnum;
16             Balance = initbalance;
17         }
18         void displayAccountDetails()
19         {
20             cout<<"Enter Your details"<<endl;
21             cout<<"Account Holder "<<AccountHolderName<<endl;
22             cout<<"Account Number "<<AccountNumber<<endl;
23             cout<<"Balance "<<Balance<<endl;
24         }
```

The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure under 'KIRTHISHSHETTY'. The Explorer pane lists files like 'example.txt', 'filexyz', 'Library', 'Movies', 'Music', 'MyProject', 'Pictures', 'Public', and various configuration files. The main editor window displays the code for 'Assign2.cpp'. The code defines a 'BankAccount' class with three methods: 'displayAccountDetails()', 'deposit(double amount)', and 'withdraw(double amount)'. The 'deposit' method uses an 'if' statement to check if the amount is greater than 0, and the 'withdraw' method uses an 'if' statement to check if the amount is greater than 0 and less than or equal to the balance. The status bar at the bottom indicates the file is 'main*' and the editor is in 'Debug' mode.

```
4 class BankAccount
18 void displayAccountDetails()
24 }
25 void deposit(double amount)
26 {
27     if (amount>0)
28     {
29         Balance=Balance+amount;
30         cout<<"Successfully Credited "<<amount<<" Current balance
31     }
32     else
33     {
34         cout<<" Enter valid deposit entry "<<endl;
35     }
36 }
37 void withdraw(double amount)
38 {
39     if(amount>0 && amount <= Balance)
40     {
41         Balance = Balance-amount;
42         cout<<"Successfully Debited "<<amount<<" Current balance "
43     }
44     else if (amount>Balance)
45     {
```

The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure under 'KIRTHISHSHETTY'. The Explorer pane lists files like 'Downloads', 'example.txt', 'filexyz', 'Library', 'Movies', 'Music', 'MyProject', 'Pictures', 'Public', and various configuration files. The main editor window displays the code for 'Assign2.cpp'. The code defines a 'BankAccount' class with three methods: 'displayAccountDetails()', 'deposit(double amount)', and 'withdraw(double amount)'. The 'displayAccountDetails' method is implemented with an 'if' statement to check if the balance is less than or equal to 0, and the 'getBalance' method is implemented to return the balance. The 'main' function is implemented to create a 'BankAccount' object, call the 'displayAccountDetails' method, call the 'deposit' method, call the 'withdraw' method, and call the 'displayAccountDetails' method again. The status bar at the bottom indicates the file is 'main*' and the editor is in 'Debug' mode.

```
4 class BankAccount
18 void displayAccountDetails()
45 {
46     cout<<" Insufficient Balance "<<endl;
47 }
48 else
49 {
50     cout<<" Enter valid amount "<<endl;
51 }
52 }
53 double getBalance()
54 {
55     return Balance;
56 }
57 };
58 int main()
59 {
60     BankAccount account("Karan",1567009624,50000.00);
61     account.displayAccountDetails();
62     account.deposit(10000.00);
63     account.withdraw(5000.00);
64     account.displayAccountDetails();
65 }
66 return 0;
```