Merrik Wright

CS405

To complete this activity, I updated the add\_numbers() and subtract\_numbers() template functions to detect and prevent numeric overflow and underflow by using std::numeric\_limits<T>::max() and lowest() for each data type. I added a bool& parameter to each function to return whether an overflow or underflow occurred and adjusted the test\_overflow() and test\_underflow() functions to print a warning message if one was detected. After integrating these changes, I compiled and ran the program in Visual Studio. The console output displayed both successful calculations and clear "Overflow detected!" or "Underflow detected!" messages, confirming that the logic worked as intended.

Overall, I think I waw able to get everything in VS code correctly.





