# Project I :

1 ) Created independent functions to :

column\_check  
bool column\_check(int array[][9]); //This function checks for duplicate values in each column.

row\_check()  
bool row\_check(int array[][9]); // This function checks for duplicate values in each row.

subgrid\_check()  
bool subgrid\_check(int array[][9]); //This function checks for duplicate values in each 3x3 subgrid.  
  
2) Created a Independent thread for each function that checks their respective scope for the validation.

A screen shot of a computer

Description automatically generated3) Output to prove its multithreading:

Figure showing Thread 1,Thread 2 and Thread 3 are running Parallelly .

# Project II: