

Name:- Chaitanya Dayanand Chaudhari

UTA ID:- 1001879470

Peer Review for : Preston Mann

1. Default else condition for if-else used for the operator:- The code takes into account only the operators like +,-,\*,/. But if the user inputs any other character, the programs. This is a vulnerability as the attacker can exploit this. Providing default else condition to handle any other operator character can help causing vulnerabilities.
2. Use of scanf: The code uses scanf to accept inputs from the user. If the user enters larger input, the program will fail causing buffer overflow. Use 'fscanf' instead.
3. Use of system() on line 219:- It reports a command injection vulnerability.
4. File kept open: The 'retrieve' function in the code open the file for accessing the last stored result but doesn't close it which is a vulnerability.
5. Use of int for operations: The operations uses integers(int) instead of safeint which can cause integer overflow.
6. Use char[] that is easy to over flow as it's hard coded.