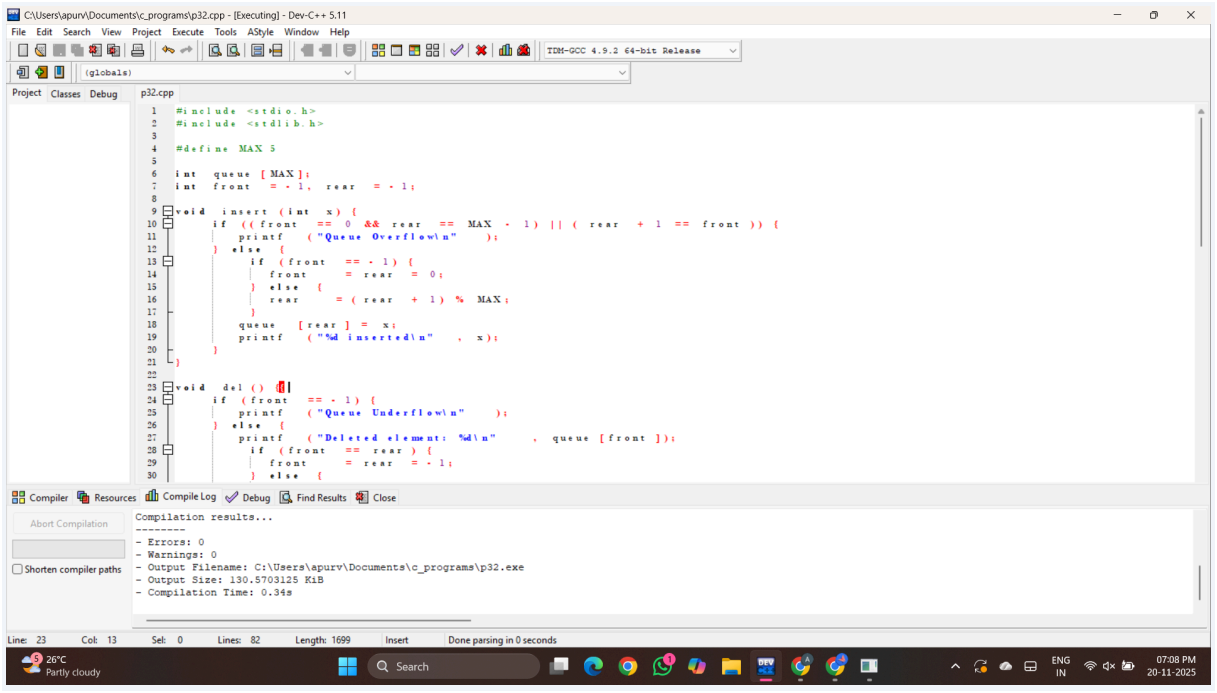
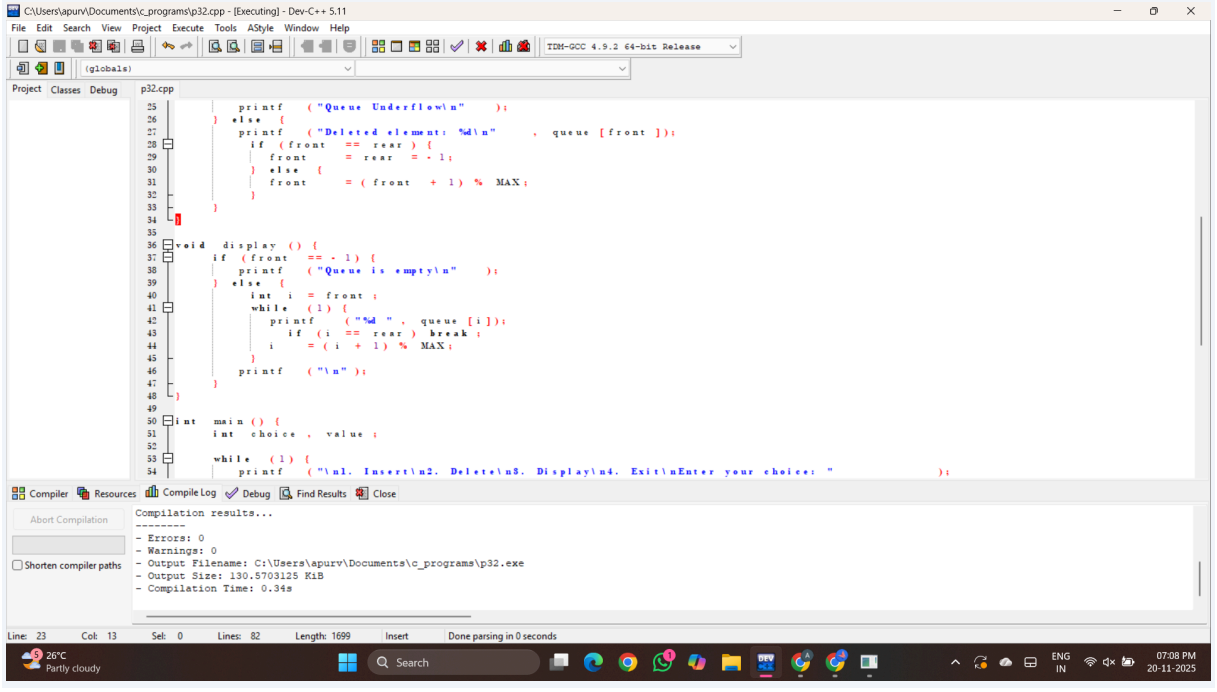
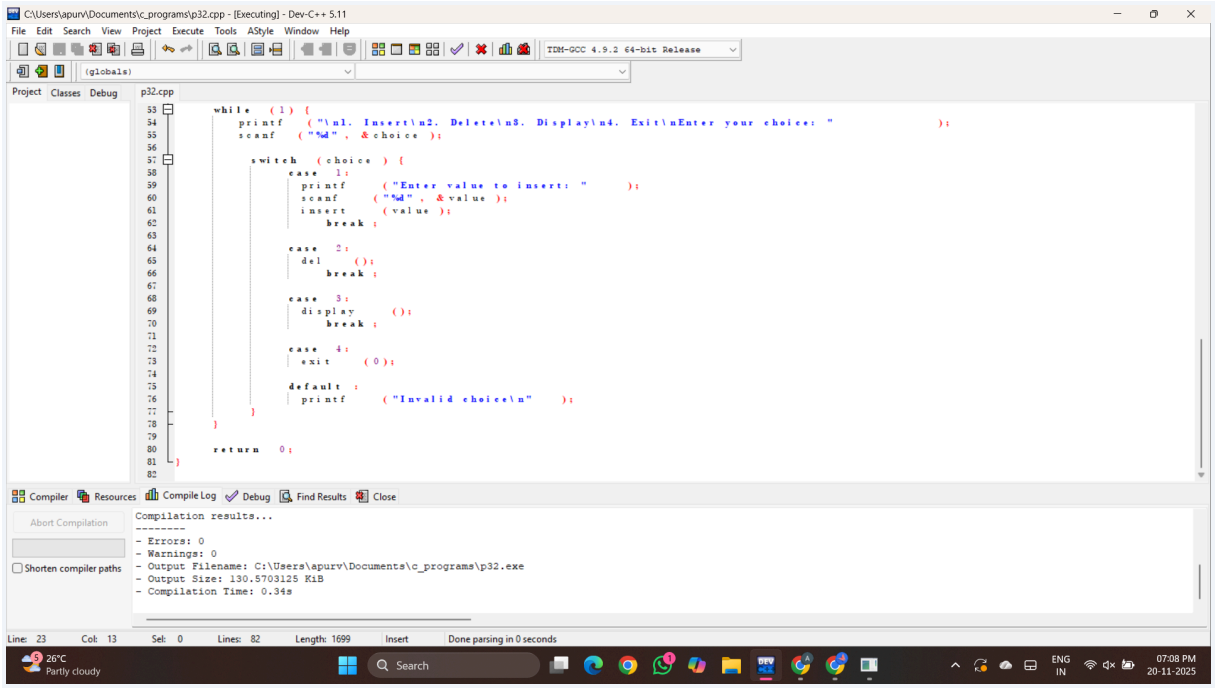
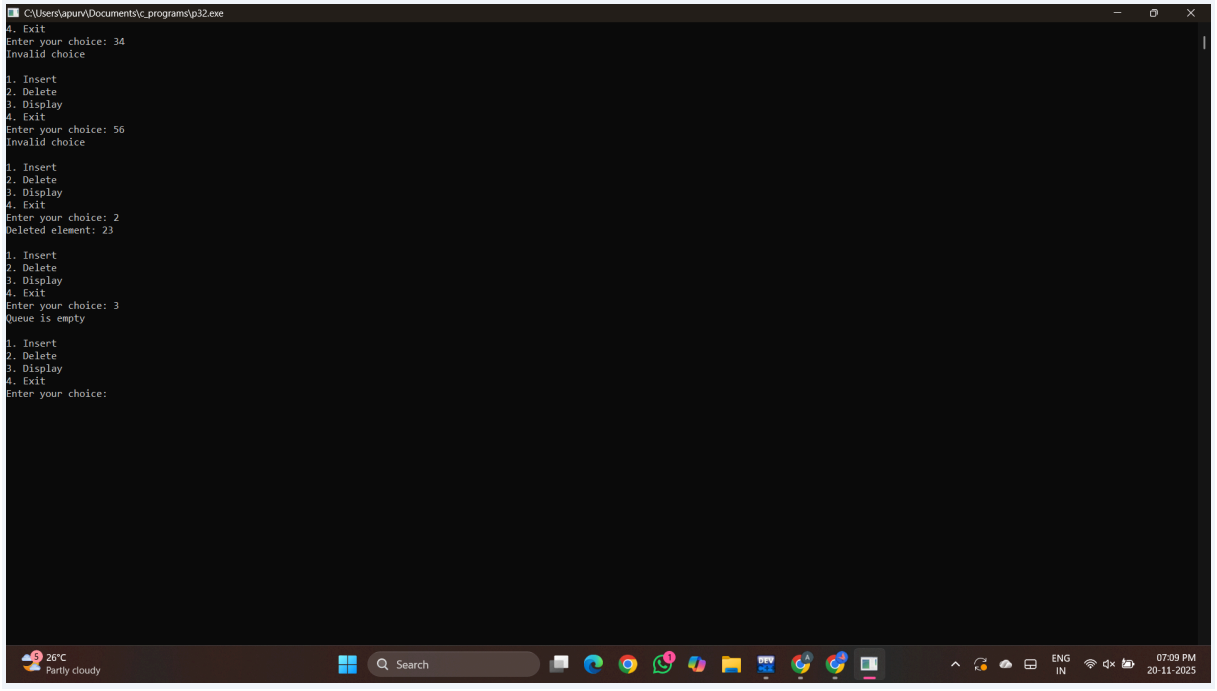
3b) WAP to simulate the working of a circular queue of integers using an array. Provide the following operations: Insert, Delete & Display
The program should print appropriate messages for queue empty and queue overflow conditions






C:\Users\apurv\Documents\c_programs\p32.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
TDM-GCC 4.9.2 64-bit Release
(globals)
Project Classes Debug
p32.cpp
while (1) {
printf ("\n1. Insert\n2. Delete\n3. Display\n4. Exit\nEnter your choice: ");
scanf ("%d", &choice);
switch (choice) {
case 1:
printf ("Enter value to insert: ");
scanf ("%d", &value);
insert (value);
break;
case 2:
del ();
break;
case 3:
display ();
break;
case 4:
exit (0);
default:
printf ("Invalid choice\n");
}
}
return 0;
}
Compiler Resources Compile Log Debug Find Results Close
Abort Compilation
Shorten compiler paths
Compilation results...

- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\apurv\Documents\c_programs\p32.exe
- Output Size: 130.5703125 KiB
- Compilation Time: 0.34s
Line: 23 Col: 13 Sel: 0 Lines: 82 Length: 1699 Insert Done parsing in 0 seconds
26°C
Partly cloudy
Search
ENG
IN
07:08 PM
20-11-2025


C:\Users\apurv\Documents\c_programs\p32.exe
4. Exit
Enter your choice: 34
Invalid choice
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 56
Invalid choice
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 2
Deleted element: 23
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 3
Queue is empty
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice:
26°C
Partly cloudy
Search
ENG
IN
07:09 PM
20-11-2025