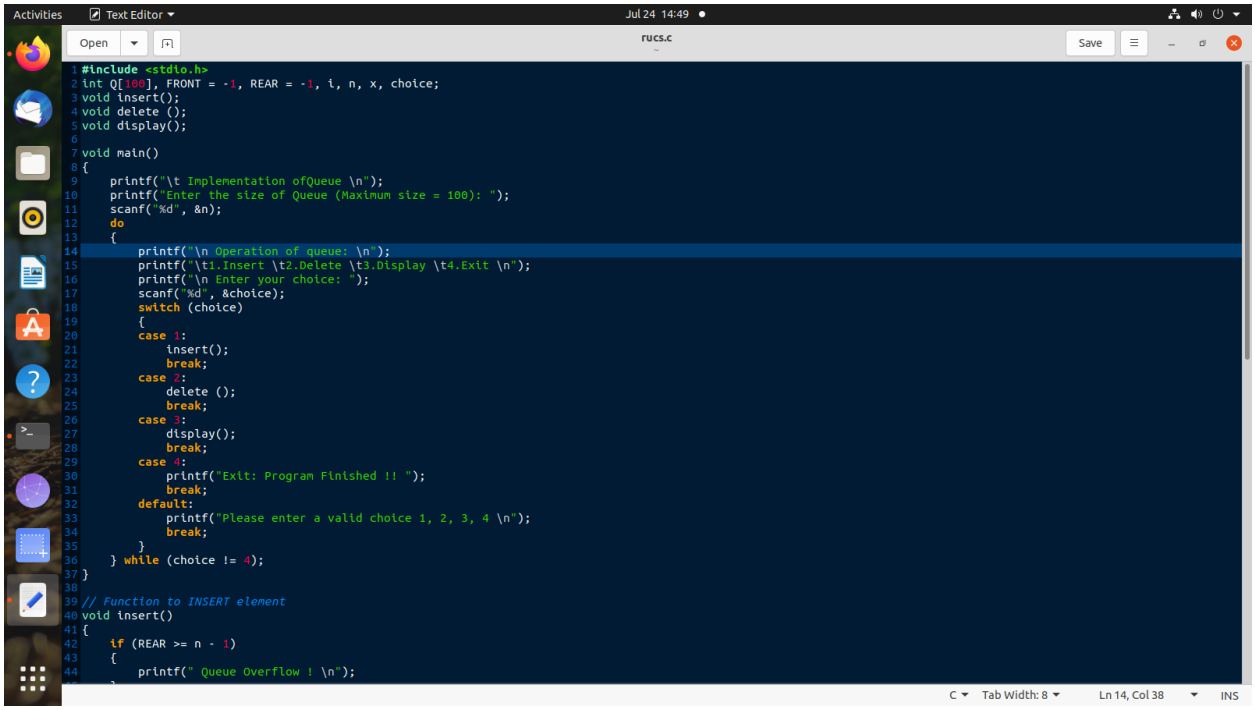
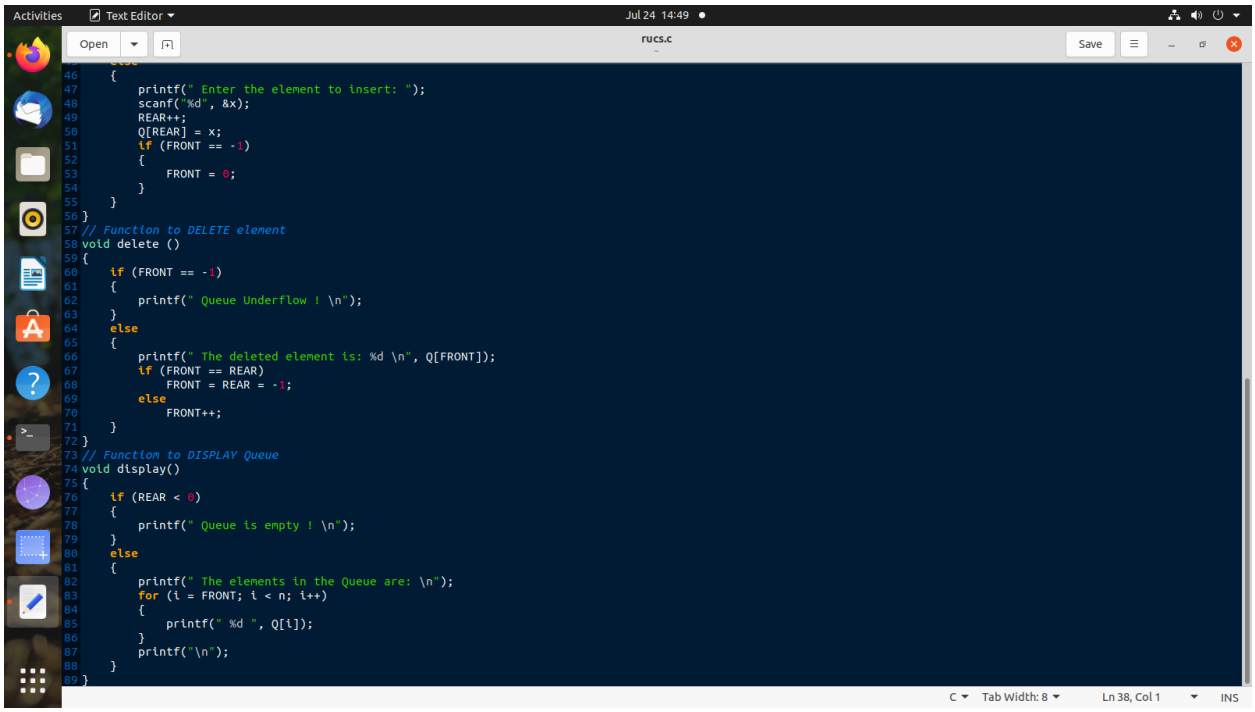
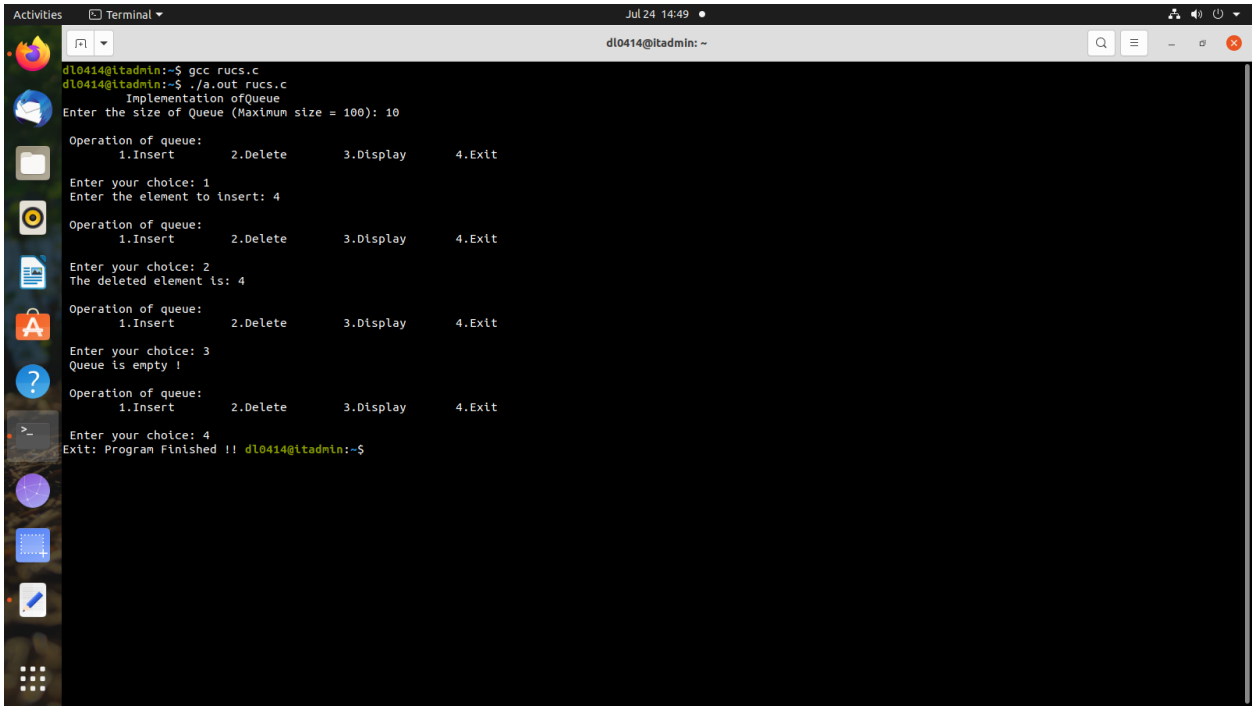

Activities
Text Editor
Jul 24 14:49
Open
rucs.c
~
Save
#include <stdio.h>
int Q[100], FRONT = -1, REAR = -1, i, n, x, choice;
void insert();
void delete ();
void display();
void main()
{
printf("\t Implementation ofQueue \n");
printf("Enter the size of Queue (Maximum size = 100): ");
scanf("%d", &n);
do
{
printf("\n Operation of queue: \n");
printf("\t1.Insert \t2.Delete \t3.Display \t4.Exit \n");
printf("\n Enter your choice: ");
scanf("%d", &choice);
switch (choice)
{
case 1:
insert();
break;
case 2:
delete ();
break;
case 3:
display();
break;
case 4:
printf("Exit: Program Finished !! ");
break;
default:
printf("Please enter a valid choice 1, 2, 3, 4 \n");
break;
}
} while (choice != 4);
}
// Function to INSERT element
void insert()
{
if (REAR >= n - 1)
{
printf(" Queue Overflow ! \n");
C
Tab Width: 8
Ln 14, Col 38
INS


Activities
Text Editor
Jul 24 14:49
Open
rucs.c
~
Save
{
printf(" Enter the element to insert: ");
scanf("%d", &x);
REAR++;
Q[REAR] = x;
if (FRONT == -1)
{
FRONT = 0;
}
}
}
// Function to DELETE element
void delete ()
{
if (FRONT == -1)
{
printf(" Queue Underflow ! \n");
}
else
{
printf(" The deleted element is: %d \n", Q[FRONT]);
if (FRONT == REAR)
FRONT = REAR = -1;
else
FRONT++;
}
}
// Function to DISPLAY Queue
void display()
{
if (REAR < 0)
{
printf(" Queue is empty ! \n");
}
else
{
printf(" The elements in the Queue are: \n");
for (i = FRONT; i < n; i++)
{
printf(" %d ", Q[i]);
}
printf("\n");
}
}
C
Tab Width: 8
Ln 38, Col 1
INS


Activities
Terminal
Jul 24 14:49
dl0414@itadmin: ~
dl0414@itadmin:~$ gcc rucs.c
dl0414@itadmin:~$ ./a.out rucs.c
Implementation ofQueue
Enter the size of Queue (Maximum size = 100): 10
Operation of queue:
1.Insert 2.Delete 3.Display 4.Exit
Enter your choice: 1
Enter the element to insert: 4
Operation of queue:
1.Insert 2.Delete 3.Display 4.Exit
Enter your choice: 2
The deleted element is: 4
Operation of queue:
1.Insert 2.Delete 3.Display 4.Exit
Enter your choice: 3
Queue is empty !
Operation of queue:
1.Insert 2.Delete 3.Display 4.Exit
Enter your choice: 4
Exit: Program Finished !! dl0414@itadmin:~$