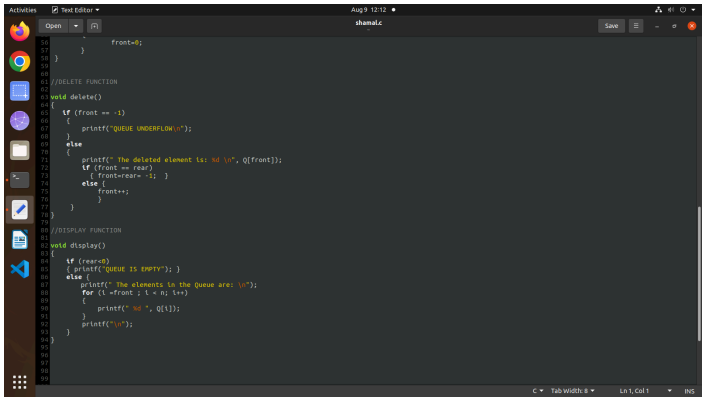
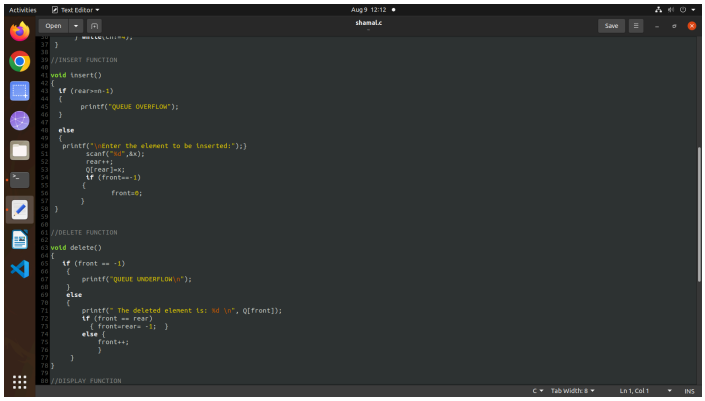
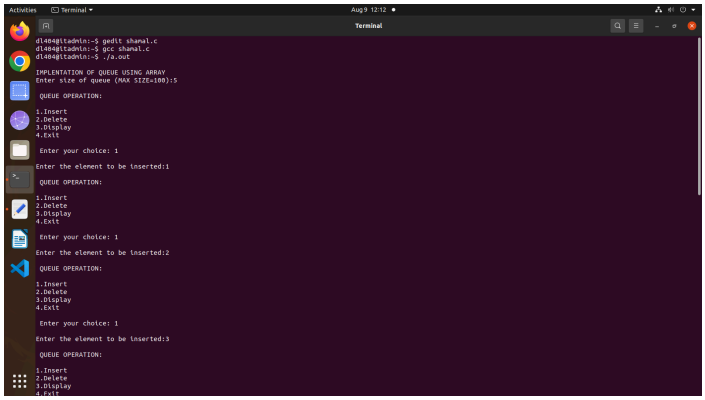
SubmittedDetails-
Name of Student:Shamal B. Deore
RollNo.:18
DateofPerformance:09-08-24
DateofSubmission:09-08-24

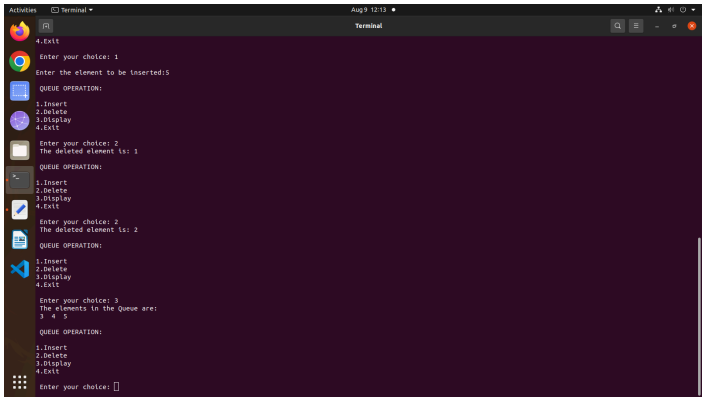


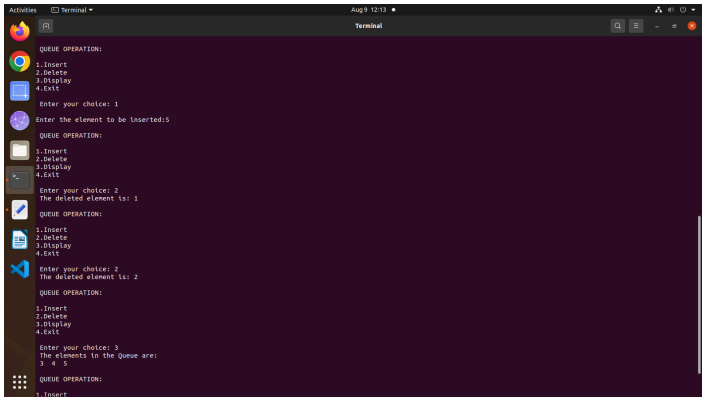
```
            front=0;
        }
}

//DELETE FUNCTION

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++;
          }
   }
}

//DISPLAY FUNCTION

void display()
{
   if (rear<0)
   { printf("QUEUE IS EMPTY"); }
   else {
      printf(" The elements in the Queue are: \n");
      for (i =front ; i < n; i++)
      {
         printf(" %d ", Q[i]);
      }
      printf("\n");
   }
}
```



```
}

//INSERT FUNCTION

void insert()
{
  if (rear>n-1)
  {
     printf("QUEUE OVERFLOW");
  }

  else
  {
  printf("\nEnter the element to be inserted:");}
       scanf("%d",&x);
       rear++;
       Q[rear]=x;
       if (front==-1)
       {
            front=0;
       }
}

//DELETE FUNCTION

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++;
          }
   }
}

//DISPLAY FUNCTION
```


Activities
Terminal
Aug 9 12:12
Terminal
dl404@itadmin:~$ gedit shanal.c
dl404@itadmin:~$ gcc shanal.c
dl404@itadmin:~$ ./a.out
IMPLENTATION OF QUEUE USING ARRAY
Enter size of queue (MAX SIZE=100):5
QUEUE OPERATION:
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice: 1
Enter the element to be inserted:1
QUEUE OPERATION:
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice: 1
Enter the element to be inserted:2
QUEUE OPERATION:
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice: 1
Enter the element to be inserted:3
QUEUE OPERATION:
1.Insert
2.Delete
3.Display
4.Exit


Activities
Terminal
Aug 9 12:13
Terminal
4.Exit
Enter your choice: 1
Enter the element to be inserted:5
QUEUE OPERATION:
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice: 2
The deleted element is: 1
QUEUE OPERATION:
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice: 2
The deleted element is: 2
QUEUE OPERATION:
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice: 3
The elements in the Queue are:
3 4 5
QUEUE OPERATION:
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice:


Activities
Terminal
Aug 9 12:13
Terminal
QUEUE OPERATION:
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice: 1
Enter the element to be inserted:5
QUEUE OPERATION:
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice: 2
The deleted element is: 1
QUEUE OPERATION:
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice: 2
The deleted element is: 2
QUEUE OPERATION:
1.Insert
2.Delete
3.Display
4.Exit
Enter your choice: 3
The elements in the Queue are:
3 4 5
QUEUE OPERATION:
1.Insert