Data Structure and Algorithm Practicals

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6. Demonstration of Linear Queue
<html>
  <head>
     <title>Linear Queue</title>
     <script>
        class Node
          constructor()
             this.data=document.getElementById("inputstr").value;
             this.next=null;
          }
        }
        class Queue
          constructor()
             this.front=null;
             this.rear=null;
          }
          insert()
             var temp=new Node();
             if(this.rear==null)
                this.front=temp;
                this.rear=temp;
             }
             else
                this.rear.next=temp;
                this.rear=temp;
             }
           }
          display()
             if(this.front==null)
                document.getElementById("outputstr").innerHTML="Queue is E
mpty";
             }
             else
                var curr=this.front;
                var str="Elements of Linear Queue are : <br>Front --> ";
                while(curr!=null)
```

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{
                  str=str+curr.data+" --> ";
                  curr=curr.next;
               }
                  document.getElementById("outputstr").innerHTML=str+"Rea
r";
             }
          }
          delete()
             if(this.front==null)
               document.getElementById("outputstr").innerHTML="Queue is E
mpty";
             }
             else
               var temp=this.front;
               this.front=this.front.next;
               if(this.front==null)
                  this.rear=null;
               document.getElementById("outputstr").innerHTML="Deleted Ele
ment is: "+temp.data;
             }
          }
       }
       var obj=new Queue();
     </script>
  </head>
  <body>
     <label>Linear Queue Using Linked List :</label>
     <br><br><
     <label>Enter Element Here: </label>
     <input type="text" id="inputstr"/>
     <br><br><
     <button onclick="obj.insert.call(obj)">Insert</button>
     <button onclick="obj.delete.call(obj)">Delete</button>
     <button onclick="obj.display.call(obj)">Display</button>
     <br><br><
     </body>
</html>
```