PRACTICAL – 2

AIM: 2.1. Design an user interface for assigning a grade to students based on the subjects marks

2.2. Design an User interface for printing the numbers in a) Ascending order b) Descending order c) Subtraction

• Code:

```
<!DOCTYPE html>
<html lang="en">
 <head>
  <meta charset="UTF-8" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <title>Grade</title>
  <style>
   * {
    box-sizing: border-box;
    padding: 0;
    margin: 0;
    font-family: "Times New Roman", Times, serif;
   html {
    width: 100%;
    height: 100%;
    background: linear-gradient(#e66465, #9198e5, rgb(1, 59, 250));
    background-repeat: no-repeat;
   #box {
    display: flex;
    justify-content: center;
    align-items: center;
    align-content: center;
    flex-direction: column;
    width: 40%;
    height: 60%;
    background-color: white;
    position: absolute;
    top: 50%;
    left: 50%;
    transform: translate(-50%, -50%);
    border: none;
    z-index: 999;
    border-radius: 18px;
    background-color: rgba(255, 255, 255, 0.479);
    box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);
    backdrop-filter: blur(10px);
   input[type="text"] {
    width: 200px;
    text-align: center;
    height: 25px;
    padding: 0.5rem;
    margin: 0.5rem 0.25rem;
    font-size: 1.1rem;
    border-radius: 8px;
    border: 1.5px solid #a777e3;
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outline-color: #6e8efb:
       button {
         padding: 0.55rem 1.5rem;
         margin: 0.5rem 0.5rem 1rem 0.5rem;
          font-size: 1.3rem;
         border: none:
          border-radius: 12px;
          background-color: #6e8efb;
          color: white;
          cursor: pointer;
         transition: background-color 0.3s ease;
       button:hover {
         background-color: #a777e3;
       #result {
         display: block;
          font-size: 1.5rem:
          font-weight: 600;
          color: #4a2c9f:
         min-height: 2em;
         margin-top: 0.5rem;
        .header text {
         color: black;
          font-size: 18px;
          font-weight: 600;
         margin: 10px 0px;
     </style>
  </head>
  <body>
    <div id="box">
       <a href="marks" class="header text"> Enter Marks to see your grade</label>
       <input type="text" id="marks" name="marks" placeholder="Enter Grade" />
       <label id="result"></label>
       <a href="rum" class="header"><a href="header"><a href="rum" class="header"><a href="rum" class="header"
Descending order</label>
       <input type="text" id="num" name="num" placeholder="Enter number" />
       <label id="result2"></label>
       <label id="result3"></label>
       <a href="rum2" class="header text"> Enter Two numbers to perform subtraction </a> <a href="label">label</a>>
       <div>
          <input type="text" id="num2" name="num2" placeholder="Enter first operand" />
         <input type="text" id="num3" name="num3" placeholder="Enter second operand" />
       </div>
       <label id="result4"></label>
       <button id="subtraction">Subtraction</button>
     </div>
     <script>
       let inp grade = document.getElementById("marks");
       let result = document.getElementById("result");
       let inp num = document.getElementById("num");
       let result2 = document.getElementById("result2");
       let result3 = document.getElementById("result3");
       let inp num2 = document.getElementById("num2");
       let inp num3 = document.getElementById("num3");
```

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let result4 = document.getElementById("result4");
   let subtraction = document.getElementById("subtraction");
   subtraction.addEventListener("click", function () {
    let num1 = Number(inp num2.value);
    let num2 = Number(inp num3.value);
    if (isNaN(num1) || isNaN(num2)) { result4.textContent = "Please enter valid numbers."; }
    else { result4.textContent = "Subtraction Result: " + (num1 - num2); }
   inp num.addEventListener("input", function () {
    let numbers = inp num.value.split(",").map(Number);
     if (numbers.some(isNaN)) {
      result2.textContent = "Please enter valid numbers.";
      result3.textContent = "";
     } else {
      let asc = [...numbers].sort((a, b) \Rightarrow a - b);
      let desc = [...numbers].sort((a, b) \Rightarrow b - a);
      result2.textContent = "Ascending Order: " + asc.join(", ");
      result3.textContent = "Descending Order: " + desc.join(", ");
   });
   inp grade.addEventListener("input", function () {
    let grade = Number(inp grade.value);
     if (\text{grade} \ge 80 \&\& \text{grade} \le 100)  {
      result.textContent = "Grade is A";
     } else if (grade >= 70 && grade < 80) {
      result.textContent = "Grade is B";
     else if (grade >= 60 \&\& grade < 70) {
      result.textContent = "Grade is C";
     } else if (grade >= 50 && grade < 60) {
      result.textContent = "Grade is D";
     } else if (grade >= 0 && grade < 50) {
      result.textContent = "Grade is F";
     } else {
      result.textContent = "";
   });
  </script>
 </body>
</html>
```

• Output:

